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Thaeler, C. S., Jr

1956

Catalogue

#99-230

Journal

calif.

Species Acct.

Chaler
1956

Aug 20, 1956 Between Silver and Golden Beaches, Raquette Lake, Hamilton Co., New York.

99	<i>Sorex c. cinereus</i>	♀ no embryos	95-37-11.5
100	" "	♂	107.5-43-12
101	<i>Peromyscus leucopus gracilis</i>	♂ R.T. 12 x 4 mm.	171.5-81-21.5
102	" "	♂ L.T. 10 x 6.4 mm R.T. 9.7 x 6.6 mm	175.5-86.5-21

Aug 21, 1956 Same location

103	<i>Clethrionomys g. gapperi</i>	♀ embryos 3 R. Horn } 12 mm. 2 L. Horn }	134.5-35-19
104	" "	♀ embryos 2 L. Horn } 6 mm. 3 R. Horn }	130-38-18.5
106	<i>Tamias striatus lysteri</i>	♂ L.T. 18.5 x 8 mm R.T. 13.5 x 7.5 mm	252.5-89-35.5

Aug 22 Same Location

106	<i>Peromyscus leucopus gracilis</i>	♂ L.T. 10.5 x 7.5 mm R.T. 10 x 6.5 mm	178.5-86.5-20
107	" "	♀ nursing	184-91.5-21.5
108	<i>Clethrionomys g. gapperi</i>	♀ nursing	140-42.5-19
109	" "	♀ no embryos	108-30-18.5
110	" "	♂ L.T. 4 x 2.5 mm R.T. 3.8 x 2.5 mm	115-36-18.5

Aug 23 Same Location

111	<i>Tamias striatus lysteri</i>	♀ no embryos nursing	261.5-98-35.5
112	" "	♀ embryos L. Horn 2 } 18.5 mm. R. Horn 3 }	249-83-33.5

Aug 24 Same Location

113	<i>Peromyscus leucopus gracilis</i>	♂ R.T. 7 x 4 mm L.T. 6.5 x 4.5 mm	169-83-19
114	" "	♀ No embryos	185.5-88.5-20
115	" "	♀ No embryos	177-90.5-19.5

Aug 25, Death Brook 100 yds from Raquette Lake, Hamilton Co., New York.

116	<i>Sorex palustris albi barbis</i>	♀ no embryos	127-58-17.5
117	<i>Zapus h. hudsonicus</i>	No skull No skull ♂ L.T. 4.5 x 2.5 mm R.T. 4.5 x 2.5 mm	212-131-30

Aug 26 Same location as Aug 25.

118	<i>Napeozapus i. insignis</i>	No skull ♀ nursing 4 embryos Left horn	227.5-139.5-29
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Catalogue

Sept. 18, 1956 Pt. Isabel (Salt Marsh), El Cerrito, Contra Costa Co., Calif.
(no embryos)

120 *Microtus californicus* ♀ (coll. V. Lewin) 171-46-20-12 wt. 40.19ms.

Sept. 22, 1956 Corral Hollow, 2 mi. W of Alameda-San Joaquin Co. Line
Alameda Co., Calif.

121 *Dipodomys deserti* ♂ (coll. V. Lewin) 217-127-40-12 wt. 33.39ms.

Sept. 26, 1956 Strawberry Canyon, Berkeley, Alameda Co., Calif.

122 *Peromyscus truei* ♂ (coll. A. Zeigler) T.L. 7mm. 185-87-23-23 wt. 22.59ms
skin only

Sept. 29, 1956 Sagehen Creek, ele. 6400 ft., 3 mi N.W. of Hobart Mills,
Nevada Co., Calif.

123. *Peromyscus maniculatus* ♂ (T.L. 11mm) 160-71-19-19 wt. 26.69ms

124 " " ♂ (T.L. 9mm) 157-69-19-18 wt. 19.89ms.

125 " " ♀ No embryos Nursing 156-68-19-20 wt. 23.59ms.

126 " " ♂ (T.L. 7mm) 159-69-21-19 wt. 17.19ms

127 " " ♀ No embryos 124-48-19-17 wt. 8.69ms.

128 *Microtus* ♀ No embryos 174-58-22-14 wt. 37.09ms.

129 *Eutamias* ♀ No embryos 191-74-31-19 wt. 46.89ms.

130 *Neotoma cinerea* ♂ (T.L. 11mm) 397-172-46-35 wt. 936.29ms.

131 *Thomomys* ♂ (T.L. 6mm) 202-59-25-10 wt. 97.39ms.

132 *Eutamias* ♂ (T.L. 4mm) 192-80-32-19 wt. 41.09ms.

Sept. 30, 1956 (Same Location)
(coll. O. Paris)

133 *Microtus* ♀ 3 embryos 13mm. 174-59-21-16 wt. 37.69ms.
(coll. J. Lawrence)

134 " " ♀ No embryos 157-40-20-14 wt. 50.49ms.

135 " " ♂ (coll. J. Lawrence) (T.L. 5mm) 156-50-22-13 wt. 26.39ms.

136 " " ♂ (coll. J. Lawrence) (T.L. 3mm) 136-37-19-14 wt. 27.19ms.

137 " " ♀ no embryos 134-32-18-12 wt. 26.39ms.

138 *Peromyscus maniculatus* ♂ (T.L. 3mm.) 152-69-21-18 wt. 15.09ms.

139 " " ♂ (T.L. 6mm.) 147-67-20-18 wt. 14.39ms.

140 *Eutamias* ♂ 143-74-31-16 wt. 45.59ms.

141 " " ♂ 191-72-30-18 wt. 45.19ms.

seller
956

142. *Eutamias* ♂ 196-81-27-17 wt. 43.5 gms.

Oct. 20, 1956 Corral Hollow, ele. 700', 1 mi W. of Alameda-San Joaquin Co line, Alameda Co., Calif.

143. *Dipodomys* ♂ T.L. 11mm. 268-142-43-18

144. *Aphelocoma californica* ♀

145. *Lanius ludovicianus* ♂

1957

Jan. 8, 1957 Strawberry Canyon, Berkeley, Alameda Co. Calif.

146. *Reithrodontomys* ♀ no embryos 124-67-17-14

147. " ♂ 125-65-16-13

148. " ♀ no embryos 136-68-18-15

149. " ♂ ~~no embryos~~ 129-64-17-14

150. " ♀ no embryos 144-73-17-13

151. " ♀ " 131-65-16-15

Jan. 23, 1957, alluvial fan on South side of Mt. Russell, Riverside Co., ele. 1850, Calif.

152. *Dipodomys* ~~agilis~~ ♀ no embryos 292-180-43-16 wt. 48.5 gms

153. *Peromyscus* ♀ 4 embryos L.H. 164-68-20-18 wt. 20.9 gms

154. " ♂ T.L. 7mm. 149-68-18-16 14.3 gms.

155. " ♂ T.L. 8mm. 199-114-21-18 19.0 gms.

Jan. 23, 1957 Rocky slope on south side of Mt. Russell, Riverside Co., ele. 1850, Calif.

156. *Neotoma* ♀ no embryos 327-161-33-32 wt. 12.3

157. *Perognathus* ♂ T.L. 6mm. 189-119-24-9 wt. 18.8 gms

Jan. 23, 1957 S.E. Side of Mt. Russell, ele. 1550, Riverside Co., Calif.

158. *Dipodomys* ♀ 1 embryo L.H. 274-161-46-18 wt. 54.9 gms
1850'

Jan. 23, 1957 Badlands, 1.0 Mi E. of Jct. of Rts 60 and 78, Riverside Co., Calif.

159. *Dipodomys* ♀ no embryos 287-178-41-19 61.9 gms.
coll. W.L. Muhlbach

160. *Peromyscus* ♂ T.L. 9mm 193-109-20-18 21.9 gms

161. " ♀ No embryos 296-116-21-18 23.8 gms

162. " ♀ no embryos 193-112-21-18 19.6 gms

Below same local as 158

hauler

957

Jan 24, 1957

S.E. slope of Mt. Russel, ele. 1550', Riverside Co., Calif.

Jan. 24, 1957

- 163 *Perognathus* ♂ T.L. 5mm wt. 22.0 gms 189-99-24-10
 164 " " ♀ no embryos wt. 23.8 gms. 201-112-24-9
 165 *Dipodomys* ♀ 1 embryo in each horn. 262-155-40-16 wt. 51.0 gms.

Badlands 1.0 mi E. of Jct. Rts. 60 and 79, Riverside Co. Calif. ele. 1550'

- 166 *Peromyscus* ♂ 220-123-24-22 24.3 gms.
 167 *Neotoma* ♂ T.L. 4mm 356-180-36-30 168.5 gms.

Jan 25, 1957 Vallecito Valley, 1 mi NE of Agua Caliente, ele. 1350', San Diego Co., Calif.

- 168 *Dipodomys* ♂ T.L. 10mm 248-143-36-18 wt. 41.3 gms.

~~169~~ Jan. 26, 1957 Vallecito Valley, 1/2 mi N.E. of mouth of Canebrake Canyon, 900'
 San Diego Co., Calif.

- 169 *Dipodomys* ♂ T.L. 9x5mm. 246-150-37-15 38.0 gms

Jan. 26, 1957 Eggers, Canebrake Canyon, ele. 1200', San Diego, Calif.

- 170 *Perognathus* ~~sp.~~ ♂ T.L. 7mm. 171-93-21-8 wt. 12.6 gms

- 171 *Peromyscus* ♂ T.L. 6mm 183-100-21-19 14.7 gms.

- 172 " " ♀ 3 embryos R.H. 197-110-21-19 17.2 gms

- 173 " " ♀ No embryos 181-96-20-18 16.1 gms.

- 174 " " ♀ No embryos 186-92-18-19 11.7 gms

- 175 " " ♂ T.L. 8mm. 182-105-19-20 12.5 gms.

- 176 " " ♂ T.L. 7mm. 176-102-20-20 12.7 gms

Jan. 27, 1957 same location as 170-176

- 178 *Citellus* ♂ T.L. 21x9mm. 214-64-40-14 117.9 gms.

- 179 *Perognathus* ♂ T.L. 2mm 172-102-22-10 12.1 gms.

- 180 *Peromyscus* ♀ No embryos 182-104-20-20 13.2 gms.

- 181 " " ♂ T.L. 8mm 164-99-20-18 13.1 gms.

- 182 " " ♀ No embryos, mammary tissue well developed. 204-118-21-21 20.3 gms.

- 183 *Perognathus* ♂ T.L. 7mm. 190-104-21-7

Jan. 27, 1957 Vallecito Valley, Mouth of Canebrake Canyon, ele. 900', San Diego Co., Calif.

- 184 *Thomomys* ♀ No embryos 225-77-33-8 102.0 gms.

Jan 26, 1957 Tres Palmas, Vallecito Valley, ele. 900', San Diego Co., Calif.

- 177 *Sialia mexicanus* ♂ ad. 29.6 gms.

hauler

1957

Jan. 28, 1957, Egger's, Canebrake Canyon, ele. 1200', San Diego Co., Calif.

185 *Peromyscus* ^{T.L. 10 mm.} ♂ 169-99-20-19 wt. 13.8 gms186 " " ^{T.L. 10 mm.} ♂ 193-110-20-20 wt. 16.7 gms.

Jan 28, 1957 Vallecito Valley, Mouth of Canebrake Canyon, ele. 900', San Diego Co., Calif.

187 *Thomomys bottae* ^{No embryos} ♀ 211-75-31-8 wt. 90.3 gms.188 " " " " ^{T.L. 17 x 11 mm.} ♂ 216-72-30-8 wt. 107.2 gms

Jan. 28, 1957 Tres Palmas, Vallecito Valley, ele. 900', San Diego Co., Calif.

189 *Auriparus flaviceps* ♀? wt. 6.7 gms.

Jan. 29, 1957 same location as no. 189

190 *Perognathus* ^{no embryos} ♀ 179-102-25-8 wt. 17.4 gms.

Feb. 13, 1957 2.4 mi ENE of Martinez (saltmarsh), Contra Costa Co., Calif.

191 *Reithrodontomys* ^{No embryos.} ♀ 143-77-18-15 wt. 9.4 gms.

192 " " ♀ 147-86-19-14 wt. 9.8 gms.

193 " " ♀ wt. 12.3 gms.

194 " " ♀ 153-82-19-15 wt. 10.4 gms.

Feb. 15, 1957 same location as # 191-194

195 *Sorex* ^{T.L. 2 mm.} ♂ 108-37-11-8 wt. 5.4 gms.196 " " ^{Testes v. small.} ♂ 105-36-12-8 wt. 4.3 gms.

Feb. 16, 1957

197 *Sorex* 92-35-12-8 wt. 4.5 gms

198 " " ♂ 103-39-12-8 wt. 6.3 gms.

Feb. 15, 1957

199 *Microtus* ♀ 166-45-21-16 wt. 42.2 gms200 " " ^{2 embryos L.H.} ♀ 174-45-21-16 wt. 60.0 gms.201 *Microtus* ^{2 embryos R.H.} ♀ 168-52-21-15 wt. 40.8 gms.

Feb. 17, 1957 1.0 mi N 2.8 mi E of Martinez, Contra Costa Co., Calif.

202 *Microtus* ^{T.L. 7 mm.} ♂ 171-53-23-14 wt. 46.8 gms.203 ^{3 embryos R.H.} ♀ 174-54-22-15 wt. 53.0 gms.204 ^{No embryos} ♀ 163-54-21-15 wt. 35.9 gms205 ^{T.L. 7 mm.} ♂ 183-51-23-18 wt. 58.1 gms.206 ^{T.L. 5 mm.} ♂ 167-50-22-15 wt. 40.5 gms207 ^{no embryos} ♀ 177-50-22-15 wt. 49.1 gms208 ^{no embryos} ♀ Tail-46 H.F-21 skull only209 ^{no embryos} ♀ 176-50-22-17 wt. 52.1 gms.

6.54

6.18

72, 14 11 4

6.29

Feb. 17, 1957 1.0 mi. N., 2.0 mi. E. of Martinez, Saltmarsh, Contra Costa Co., Calif.

210 Microtus ^{1 embryo L.H.} ♀ ^{5 embryos R.H.} 153-83-21-14 wt. 34.8 gms

Feb. 16, 1957 2.4 mi E.N.E. of Martinez, Saltmarsh, Contra Costa Co., Calif.

211 Reithrodontomys ♂ 140-73-17-14 wt. 8.7 gms.

212 " " ♂ 136-79-18-14 wt. 8.7 gms

213 " " ♂ 143-80-18-16 wt. 10.1 gms.

Apr. 11, 1957 .7 mi N., 2 mi W. of Pinole, Saltmarsh, Contra Costa Co., Calif

214 Microtus ^{T.L. 5mm.} ♂ 164-47-23-14 wt. 38.6 gms.

215 ^{T.L. 5mm.} ♂ 156-42-22-14 wt. 33 gms

Apr. 13, 1957 Same location as 214-215.

216 171-47-22-14 ^{T.L. 8mm.} ♂ Microtus wt. 47.2 gms.

217 157-43-21-14 ^{T.L. 7x4mm.} ♂ " " wt. 33.9 gms

Apr. 16, 1957 Same location as 214-217

218 177-46-23-16 ^{T.L. 8mm.} ♂ Microtus wt. 48.4 gms.

219 135-33-19-14 ^{T.L. 2mm.} ♂ " " wt. 27.6 gms.

Apr. 18, 1957 Same location as 214-219

220 Microtus ^{T.L. 4mm.} ♂ 143-41-21-15 wt. 29.7 gms

221 " " ^{No embryos} ♀ 167-52-21-14 wt. 42.9 gms.

Apr. 12, 1957 Same location same above

222 Microtus ^{no embryos} ♀ 152-43-21-16 wt. 31.1 gms.

Apr. 15, 1957 Same location as above

223 Microtus ^{No embryos} ♀ 131-36-20-15 wt. 24.1 gms

224 " " ^{T.L. 5mm.} ♀ 142-40-20-14 wt. 24.5 gms.

Apr. 17, 1957 Same location as above.

225 Microtus ^{T.L. 4mm.} ♂ 143-40-19-12 wt. 29.4 gms.

June 7, 1957 Water Tank Field, UofC, Field Station, ^{ele. 900'} Hopland, Mendocino Co., Calif.

226 Peromyscus ^{12 mm.} ♂ 198-106-23-19 wt. 27.4 gms.

227 " " ^{no embryos} ♀ 190-102-22-20 wt. 24.5 gms.

228 " " ^{11 mm.} ♂ 189-98-25-20 wt. 28.3 gms.

June 8, 1957 Headquarters Area, UofC Field Station, Hopland, Mendocino Co., Calif.

229 Microtus ^{? Juven} ♂ 72-14-11-4 wt. 6.69 gms.

June 13, 1957 Foster Pasture, ^{ele. 850'} UofC Field Station, Hopland, Mendocino Co., Calif.

230 Babaxosphyra formicivora ♂(?) imm.

Journal

Sept. 28

Field trip of 135 (systematic mammology) to Sagehen Creek Wildlife and Fisheries Research Station of U. of Calif. at Sagehen Creek, 3 mi N.W. of Hobart Mills, elev 6400 ft., Nevada Co., Calif.

Arrived at 4 P.M. Dr. Seth Benson in charge, Victor Sewin T.A.,
^{2 peanut butter bait}

45 traps (Museum Specials), put out at 10 P.M. Line ran from dirt Road 5 across Sagehen Creek to open sage area beyond woods with scattered rocks. The first nine traps were located on ~~an~~ ^{area} slope covered with sage (*Artemisia* sp.), and scattered Ponderosa Pine (*Pinus ponderosa*). The next ~~2~~ ⁹ traps were placed on stream bottom characterized by grass with scattered willow bushes (*Salix* sp.) and Ponderosa Pine. 6 traps were placed along the stream on stoney beach overhung by willow bushes. 17 traps (south of the stream) were in ~~an open~~ stand of Lodgepole Pine (*Pinus contorta*). The last 4 traps were in open area sparsely covered by sage (*Artemisia* sp.). One Osprey seen over Bear Reservoir, Nevada Co., Calif.
 at 8 A.M.

Sept 29

A check of the above mentioned trap line produced 9 *Peromyscus maniculatus* (5 prepared nos 123-127) and 1 *Microtus longicaudus* (no. 128). 3 *P. maniculatus* were taken on rocky slope, two in traps in meadow near the rocky slope and 4 were taken ~~across~~ in stand of Lodgepole Pine.

a check at 10 A.M. produced 1 *Eutamias amoenus* from Lodgepole Pine. (no. 129)

a check at 5:30 P.M. produced 2 *Eutamias amoenus*,
 (Nos. 140 and 141)
 one from rocky slope and one from Lodgepole pine. also one *Eutamias speciosa* (no. 132) from Lodgepole Pines. about 50 ft from stream.

at 9:30 A.M. 4 Macabee traps were set. 2, in dry meadow North of stream 2 south of stream in moist meadow (within 20 ft of stream in very fresh diggings of *Thomomys*). One *Thomomys monticola* (no. 131) was taken when traps were checked at 5:30 P.M. It was in ^{one of} the traps south of the stream.

all traps
 2, 22, 1956 see
 no 3 of journal.
 Thaller
 1956



Haeber
1956

at 10:30 A.M. four Rat traps were set in rockslide. The Sept 29 area was all within 50 yds of Sagehen Creek. The surrounding (cont) ~~thasa~~ consisted of aspen and Ponderosa Pine and open meadow with willows along stream. The traps were set at well-marked urinating posts (characterized by white salt deposits on rocks, often found along knife edges.) with special effort to select posts that showed recent use (yellow stains on ^{the} white deposits). All four traps were placed within 15 yards of southern (stream) side of slide. Walnut meat and dried apricots were ~~suit~~

at a check at 6:00 P.M. one *Neotoma cinerea* was taken. The specimen (no. 130) was ~~not~~ cold and stiff indicating it had been trapped several hours earlier, during the early ~~or~~ mid-afternoon. ^{walnut for bait}

15 traps (museum specials) were set along stream near rock slide mentioned above. These traps were placed at eastern (down stream) end of an island in the stream. The island was about 80 yds long and 15 yards wide. Northern side was separated from the mainland by only a narrow strip of water (18"-24"). This bridged by logs and branches in several places. The area was covered by ^{tall} heavy grass, and willow bushes. Several dead trees were present (yellow Ponderosa Pine?)

These traps were checked at 6 P.M. without result.

Sept. 30 at 8:AM the 45 traps (see Sept. 28) were recovered. 6 *Peromyscus maniculatus* were taken. 2 in rocky area, 1 in adjacent part of meadow and 3 in lodgepole pines. 2 specimens were prepared (nos. 138 and 139). One *Eutamias amoenus* was taken on the edge of the meadow area. (no. 142)

The macabee traps from the meadows were recovered without further results.

The rat traps from the rock slide were recovered without further results.

The 15 traps from the meadow island were recovered without

any result.

The results of trapping and collecting by other members of the class consisted of:

Sorex vagrans	4	Zapus princeps	2
Sorex townsendi	2		
Mustela erminea	1	1 coll U. Lewin	
Citellus lateralis	3		
Eutamias speciosa	7		
" "	amoenus	12	
Peromyscus maniculatus	35 approx		
Neotoma cinerea	2		
Thomomys (sp.)	2		
Microtus montanus	14		
" "	longicauda	18	
Odocoileus hemionus		Found dead along Rt 89, acquired by Dr. Benson.	

Two bats (sp.?) were seen by V. Lewin et al. at dusk on the 29th Sept.

Sept. 22

Field trip to Pt. Reyes, Marin Co. E Jay Schnell. Left Berkeley at 6 A.M. arrived at Pt. Reyes at 9:30 A.M. Left 12:30 P.M. arrived at Berkeley at 2:45 P.M. Weather fair ~~at~~ with ~~early~~ morning fog at Pt. Reyes clearing by 10:30 A.M. Rt. via Serrano and Rt 101 to Novato.

Horned Owl dead on road 4 mi E of Pt Reyes Sta. (One wing taken)

⁽⁶⁾Heater Yellow legs, L. wetlet (2) and killdeer seen on ~~south~~ tributary to Tomales Bay between Pt. Reyes Sta and Inverness. Two Banded-Tailed Pigeons at same local. 3 ~~does~~ seen 2 mi North^{West} of Pt Reyes Sta. Grey fox seen crossing road 3 mi West of Inverness.

Point Reyes, ocean side North of light (1/2 mi.) Baird's Cormorant at sea and on rocks 5 or 10 seen throughout A.M. Brown Pelicans (15 approx.) on various occasions over ocean. Seventeen surf scoter off shore. 8 ad. 9 imm. First seen about 900 yds. out, resting. approached to 50 yds of shore while feeding. Usually entire flock dived together.

haley
1956

Sept 22
(Cont)

remaining down from 38 sec. to 58 sec. surfacing almost as a group. They'd remain up about 45 sec. before diving again.

Two Pigeon hawks seen migrating, moving west along front of cliff, below top. Seen at and
Buteos, Red Tails and Accipiters, Coopers and Sharp-shin seen throughout morning. One Sharpshin watched for 20 min. about noon. It was first seen over hill by gate, moved out toward light, circled and moved generally E.N.E. about $\frac{1}{2}$ mi to 1 mi out over ocean. (visible as a speck with 7x50's.)

Sea Lions in two coves along South shore of point. One herd (250^{approx}) on farther beach. 175 approx in nearer cove. Some seemed to definitely be Stellar's (Northern) because of yellowish color. The continuous noise was suggestive of California's, however. Perhaps both species present.

Flock of 200 (approx.) pintails seen 2 mi W of San Rafael Bridge. Also mixed flock of dowitchers and ~~was~~ Long-billed Curlew seen nearby.

Richard Banks

Sept 20

Left Berkeley at 3:15 P.M., Route via Walnut Creek, Dublin to Livermore. 12 mi N.W. of Livermore on Rt. 50 (South side of Road) small pond \approx 275+ Ruddy Ducks, 75+ coot, 200 \pm 1 \pm Green scaup, 200 \pm 1 \pm Pintails, 50+ Killdeer, 30+ Dowitchers, 1 small gull possibly Bonaparte's, 1 Pied-billed Grebe, 1 Grebe (possibly Horned), one \pm Canvasback.

Traps set at 6:00 P.M. 38 museum specials 1 rat trap \approx peanut butter. Trap line ran from level area above road (ele. 700' approx) \approx good cover of grass and weeds, ~~up~~^{and down} along sparsely vegetated slope to bare rock to level area again. This area was located 0.3 mi W. of Alameda - San Joaquin Co. line, Alameda Co. in Corral Hollow, Alameda Co. Horned Owl heard about 7:00 P.M.

About 7:45 P.M. 20 Dipodomys were seen along Corral Hollow Rd. W. of County line (0.9 mi). Seven traps were set. At 9:45 P.M. one Dipodomys (CST #143) was caught in one of these traps.

Camped 0.5 mi from county line. Barn owl was heard about 10:00 P.M.

also
1956

Oct. 21

Traps checked at 6:30 A.M. One *Perognathus* ^(not preparable) ~~██████████~~ at foot of slope. One *Dipodomys* (RB # ~~██████████~~) on slope, one *Peromyscus* ^(not prepared) ~~██████████~~ on slope. Dick Banks also took 1 *Peromyscus*, and 2 *Perognathus* one was *P. californicus* ^(not preparable) ~~██████████~~ and the other *P. inornatus* (?).

0.6 mi. E. of county line in San Joaquin Co. (Corral Hollow)
4 *Citellus* seen S. of road. Several others seen on level ground above road on N. side. Rock Wrens (6), Horned Lark (about 35), Say's Phoebe (5), 1 Sparrow Hawk, 1 Red Tailed Hawk were seen while walking up (N.) valley away from road. Banks coll: one Horned Lark. (RB # ~~██████████~~).

0.4 mi. E. of county line in San Joaquin Co. (Corral Hollow) walked N. from road along stream & a few cottonwoods. 50+ House Finches, one collected (RB # ~~██████████~~), 4 Scrub Jay / coll: (C.S.T. # 144) 1 Hairy Woodpecker (C.S.T. # ~~██████████~~) and 1 Lark Sparrow
1 Nuttall's Woodpecker (RB # ~~██████████~~), June 5 1 (collected one C.S.T. # ~~██████████~~).
On south side of road one shrike & small bird (unidentified) in ~~blaze~~. One Anna's (?) Hummingbird on S. side of road.

Collected one Shrike (C.S.T. # 145) ~~at~~ along Corral Hollow Road
8 Mi. E. of Livermore, Alameda Co.

In water in gravel quarry between Livermore and Pleasanton saw 75+ Coot, 2 Greater Yellow Legs (?), 1 Ring-billed gull. Returned at 12:30 P.M. to Berkeley.

Keller
1956

Mar 27

Left Berkeley at 6:50 A.M. with Richard Bank. Crossed
San Quentin Bridge. Stopped at point 1.5 mi S of San Rafael.

Chaele
1956

Pg 7 Journal

Lester
1956

Dec. 2

Left Berkeley c Marianne Hobbs at 12 noon. Across Bay Bridge and south to Rt 1 and hence to the coast. Stopped several times but didn't see anything from the standpoint of bird life. Stopped at Rockaway Beach $\frac{1}{2}$ mi. S. of town of Rockaway Beach. Saw 5 Baird's Cormorant, 4 Brant's Cormorant (?), several Western Grebes, and Eared Grebes, one Harlequin Duck, white-winged and ^{Short-billed, Western} Surf Scoters, numerous Gulls, Horned Grebes, and Oldsquaw. Also Meadowlark and Killdeer.

Continued down to Moss Beach - no birds of note seen.

Over Half-moon Bay Road to Crystal Reservoir. At south end of Upper Crystal Springs Reservoir saw flock of ducks composed mostly of Shovellers estimated about 4000+. Also present were few Baldpates (50±), Coot (30±), mallard (20±). Returned to Berkeley via Burlingame and Bay Shore Freeway.

w
156

26, 1956

Off at 6:05 AM. Picked up Marianne Hobbs at 6:30 A.M. Off at 6:45 over Golden Gate Bridge. Out to Tiburon but too dark to stop as yet. Continued north to road to San Rafael Bridge approaches, 2 mi. E. of San Rafael, at 8:05 AM. Tide in, few ducks close by. Canvasbacks 60 ± (other rafts further out) Killdeer 8

Coat 6

Bonaparte Gulls 4 other Gulls

Cared Grebe 2

unidentified

Ruddy Ducks 25 (other further out)

American Egret 1

Snowy Egret 5
Tiburon Blvd.

Took road toward Tiburon, 1/2 mi. E. of Rt. 101 at 8:50 AM.

Canvasbacks 70 ±

Horned Grebe 1

Peeps

Pintail 40 ±

Greater Scaup 12 ±

Killdeer

Ruddy Duck 30 ±

Western Gull

Gulls evident.

Mallard 1 ♂

Shortbilled Gull

Baldpate 1 ♂

American Egret

Shoveller 6 ♂

Great Blue Heron 1

Willet 4

Brant's Cormorant 1

Western Grebe 2

Meadowlark

Cared Grebe 1

Brewer's Blackbirds

Along shore of Richardson's Bay 3/4 from Rt. 101 at 9:40 AM. Open water = great mass of waterfowl.

Canvasback

Bufflehead

Pintail

Greater Scaup

Coat

Housefinch

Western Grebe (v. abundant)

Surf-scooter 2 ♂

at cutoff to Belvedere

Herring Gull 1

Calif. Gulls 8.

Mudflats and shallow bay along Rt. 101 1/4 mi S of Tiburon road at 10:10 AM.

Least Sandpiper 2 Other peeps unidentified Killdeer 2

Baldpate 6 ♂ 3 ♀ Turkey Vulture 1 Shoveller 2

About 300 Gulls present estimate of flock composition was:

Shortbilled 80%.

California 5%

Ringbilled 10%

Western 5%

Took road over to coast, Rt. 1, and hence to Slinson Beach

57

Jan. 17

About 4:25 PM proceeded to ~~the~~ Aquatic Park (Berkeley)
Most waterfowl were concentrated at the southern
end of the lake.

Bufflehead. ♂♂ and ♀♀

Eared Grebe

Coat

Snowy Egret

Pied-billed Grebes

Cormorants (either D.C. or Brandt)

Horned Grebes.

ulm
1956

data locality, should be the same
from all the following - and proceed to
note.

Sorex trowbridgei

Sept. 30, 1956, 2 specimens taken by others members of 135 at Sagehen
Creek, 3 mi N.W. Hobart Mills, elev. 6400', Nevada Co. Calif. These captured in
meadows along stream.

uclm
956

Sorex vagrans

Sept. 30, 1956 4 specimens taken by other members of 135 at Sagehen
Creek, Ele 6400', 3 mi. N.W. of Hobart Mills, Nevada Co., Calif. Three taken in meadows
along stream.

added
1956

Mustela erminea

Sept. 30

One specimen taken by Victor Lewin in vicinity of Sagehen Creek
Wildlife and Fisheries Research Station, Sagehen Creek, elev. 6400', 3 mi N.W. of
Hobart Mills, Nevada Co., Calif.



under
152

Citellus lateralis

Sept 30 (3) Several specimens taken by members of 135 at Sagehen Creek, Elko Co.,
3 mi N.W. of Hobart Mills, Nevada Co., Calif. These were trapped on open
rocky slopes with yellow pine ~~and~~ (*Pinus ponderosa*) as scattered cover.

collected
9.5.5

Eutamias amoenus

Sept 29

One specimen (no. 140) taken on open rocky slope with Ponderosa Pine and sage as scattered cover.

Two specimens (nos. 129 and 141) taken in lodgepole pine stand.

Sept 30

One specimen (no. 142) taken in ^{edge of} meadow adjacent to rocky slope with ponderosa pine and willow as cover.

12 others taken by other members of 135 at Lagichen Creek, elev. 6400', 3 mi N.W. of Hobart Mills, Nevada Co. Calif.

cler
956

Eutamia speciosa

Sept 29/56

One specimen (#132) taken in lodgepole pine stand.

Sept 30.

7 other specimens taken at Sagehen Creek, 3 mi N.W. of
Robert Mills, elev 6400', Nevada Co., Calif.

156

Thomomys monticola

Sept 29

One specimen (#131) taken in moist meadow 15 ft. from stream.

Sept 30

one other taken by other members of 135 at Sagehen Creek, 6400', 3 mi. N. W. of Hobart Mills, Nevada Co., Calif.

Perognathus californicus

Oct. 20

Two specimens taken at Carrad Hollow, 1 mi. N. of Alameda - San Joaquin Co. line, Alameda Co., Calif. Specimens not preservable.

cler
956

Perognathus inornatus

Oct. 20

One specimen taken at Carral Hollow, elev. 700', 1 mi. W of Alameda -
San Joaquin Co. Line, Alameda Co., Calif. Specimen not preservable.

956

Dipodomys heermanni

Oct. 20.

One specimen (#143) along Corral Hollow Rd., Corral Hollow,
0.9 mi W. of Alameda - San Joaquin Co Line, Alameda Co., Calif.

delu
1956

Dipodomys mitratoides

Sept. 22

One specimen (#121) collected by V. Geurin at Carral Hollow,
2 mi. W of Alameda-San Joaquin Co line, Alameda Co., Calif.
Habitat unknown

Oct. 20

One specimen taken on S. facing slope of Carral Hollow, 1 mi W.
of ~~Carral Hollow~~ W of Alameda-San Joaquin Co. line, Alameda Co.,
Calif.

Allen
1956

Reithrodontomys megalotis

Jan 8

Seven specimens of this species taken in Strawberry Canyon,
0.6 mi. W. of stadium of U. of C., Berkeley. All were in ~~on~~ south-facing slope covered
with ~~poor~~ grass and annuals. At one point seepage of water permitted the
only green grass in the area. Four individuals were taken in a 10' radius
here. nos. 146-151 (7th specimen not preserved.)

Peromyscus maniculatus

Sept 29

Nine specimens (# 123-127 prepared) taken as follows:

3 on rocky slope with sage and Ponderosa Pine in scattered cover; 2 along meadow edge with willow and Ponderosa Pine scattered, adj. to rocky slope; 4 in stand of Lodgepole pine.

Sept. 30

Six specimens (# 138-139 prepared) taken as follows: 2 rock areas; 1 in adj part of meadow; 3 in lodgepole pines.

Other members of 135 took 35 ~~specimens~~ specimens at Sagehen Creek, 6400', 3 mi N.W. of Hobart Mills, Nevada Co., Calif.

Oct. 20

One specimen taken on S. facing slope of Corral Hollow, elev. 700', 1 mi W. of Alameda - San Joaquin Co Line, Alameda Co, Calif.

Specimen not in preservable condition.

ulu
1956

Peromyscus truei

Sept 28

One specimen^{of several} (# 122) Taken by A Zeigler in Strawberry
Canyon, Berkeley, ~~Calameda~~ Alameda Co., Calif. Habitat unknown.

1956

Neotoma cinerea

#130

Sept 29

One specimen taken at well-marked urinating post in rock-slide area, 20 ft. from edge (meadow & stream and will bushes). animal apparently entered the trap at about 3 P.M.

Sept 30

~~one~~ one other specimens taken by members of 135 on above-mentioned rock slide, Logchen Creek, 6400', 3 mi N.W. of Hobart Mills, Nevada Co., Calif.

reler
1956

Microtus californicus

Sept 18

One of several specimens (120) collected by Victor Seewen
on salt marshes of Pt. Isabel, El Cerrito, Contra Costa Co.,
Calif.

Jul 1956

Microtus longicaudus

Sept. 29

One specimen, ^{#128} taken in meadow with willow bushes and Ponderosa pines scattered.

Sept. 30

One specimen, ^{#133} of several collected by Oscar Paris at Sagehen Creek, 6400', 3 mi. W.W., Nevada Co., Calif.

One specimen (#135) of several taken by J. Lawrence. Same location.

Jul 1954

Microtus montanus

Sept. 30

Three specimens (nos. [♀]134, [♂]136, [♀]137) of several taken by J. Lawrence
at Sagehen Creek, elev. 6700', 3 mi. N. W. of Hobart Mills, Nevada Co., Calif.

July 1954

Zapus princeps

Sept. 30

Two specimens taken in meadows along Sagehen Creek,
6400', 3 mi. N.W. of Hobart Mills, Nevada Co., Calif by members of
135.



Odocoileus hemionus

Sept. 22 Three does seen 2 mi North of Pt. Reyes Station, Marin Co.
Calif from moving car at about 8:45 A.M.

Sept. 30 One doe ~~later found~~ dead along Rt. 89 5 mi N on Rt 89 from
Herbert Mills. Specimen secured by Dr. Benson.

ele 2600'

Thaeker, C. S., Jr

1957

Catalogue

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- June 14, 1957, Orchard Pasture, ^{ele 2600'} U of C. Field Station, Hopland, ~~Calif~~ Mendocino Co., Calif.
- 231 *Pipilo maculatus* ♂ ad. testis length 13 mm. wt. 11.8 gms.
- June 17, 1957, Middle Pasture, ^{ele 1200'} U of C. Field Station, Hopland, Mendocino Co., Calif.
- 232 *Citellus* ♀ nursing ^{no embryos} 455-192-61-29 wt. 750.1 gms.
- Jan 16, 1957 Vassar Pasture, ^{ele 1100'} U of C. Field Station, Hopland, Mendocino Co., Calif.
- 233 *Scapanus* ♀ ^{Coll. by E. Brock} no embryos 183-37-22 wt. 78.5 gms.
- Jan 3, 1957 (Same location as # 233)
- 234 *Scapanus* ♂ ^{Coll. by E. Brock} 186-34-21 wt. 90.3 gms.
- Jan 3, 1957 (Same location as # 233)
- 235 *Scapanus* ♀ ^{no embryos (Coll. by E. Brock)} 182-36-21 wt. 84.2 gms.
- June 10, 1957 Buck Pasture, ^{ele 850'} U of C. Field Station, Hopland, Mendocino Co., Calif.
- 236 *Psaltiriparus minimus* ♀ ^{imm. (iris yellow)} (coll. by W. Longhurst) wt. 5.6 gms.
- June 25, 1957 Lake Pasture, ele 950', U of C. Field Station, Hopland, Mendocino Co., Calif.
- 237 *Dryobates nuttalli* ♂ adult. wt. 28.6 gms.
- June 19, 1957 East end of Vassar Pasture, ^{ele 1000'} U of C. Field Station, Hopland, Mendocino Co., Calif.
- 238 *Sorex* ♂ ^{wt. 3 mm.} T.L. 3 mm. 95-38-12-7
- June 20, 1957 Parasite Pens, North Pasture, ele 1200', U of C. Field Station, Hopland, Mendocino Co., Calif.
- 239 *Myotis* ♂ ^{Testis length 2 mm} T.L. T. FA. HF E Tr. 98-49-39-8-12-6
- 240 " ♀ ^{No embryos} 79-35-32-7-14-7
- 241 " ♂ ^{Lactating} ^{Testis length 2 mm} 81-35-31-6-13-7
- June 26, 1957 Marsh Lake Pasture, ele 900', U of C. Field Station, Hopland, Mendocino Co., Calif.
- 242 *Agelaius phoeniceus* ♀ adult. wt. 43.1 gms.
- 243 " " " " ♂ ^{imm} Testes minute wt. 42.2 gms.
- June 26, 1957 ~~Lake Pasture~~ ^{Lake Pasture} ele 900', U of C. Field Station, Hopland, Mendocino Co., Calif.
- 244 *Tachycineta thalassina* ♂ ad ^{T.L. 7 x 6 mm} wt. 15.9 gms. coll. by W. Longhurst
- July 1, 1957 Lambing Pasture ele 1050' ft., U of C. Field Station, Hopland, Mendocino Co., Calif.
- 245 *Thomomys* ♀ ^{no embryos} 198-59-27-7 wt. 95.4 gms.
- 246 *Euphagus cyanocephalus* ♂ ^{imm} T.L. 2 mm. wt. 49.9 gms.
- July 1, 1957 Headquarters area, ele 850 ft., U of C. Field Station, Hopland, Mendocino Co., Calif.
- 247 *Turdus migratorius* ♂ ^{ad. T.L. 12 x 8 mm} ~~wt. 76.6 gms.~~ coll. by W. Longhurst.
- July 3, 1957 Same as # 247
- 248 *Cyanocitta stelleri* wt. 98.8 gms.
- July 2, 1957 Same as # 242.
- 249 *Parus inornatus* ♀ ^{imm.} wt. 15.4 gms.

July 3, Hog Lake, James Pasture, ele 2500', Uof C. Field Station, Hopland, Mendocino Co., Calif.

250 *Pipilo erythrophthalmus* ♀ ad ^{ovary 4mm.} wt. 39.5 gms.

July 4

Orchard Pasture, Oak Woodland, ele 2300' Uof C. Field Station, Hopland, Mendocino Co., Calif.

251 *Cyanocitta stellari* ♂ ad Testes minute 1.5mm. wt. 95.3 gms.

Orchard Pasture, Chapparel, 2450' ele, Uof C. Field Station, Hopland, Mendocino Co., Calif.

252 *Amphispiza belli* ♂ ad. T.L. 8x5mm. wt. 13.4 gms.

253 " " " ♂ ad T.L. 9x6mm wt. 16.0 gms.

James Pasture, Hog Lake, ele 2500', Uof C. Field Station, Hopland, Mendocino Co., Calif.

254 *Chamaea fasciata* ♀ ad ^{ovary 5mm.} wt. 13.4 gms.

July 5. Hog Lake, James Pasture, ele 2500', Uof C. Field Station, Hopland, Mendocino Co., Calif.

255 *Myiarchus cinerascens* ♂ ad. ^{R.T. 9x5mm} ^{L.T. 12x5mm.} wt. 18.0 gms.

256 middle Pasture, ele. 1700', Uof C. Field Station, Hopland, Mendocino Co., Calif.

256 *Myiarchus cinerascens* ♂ ad T.L. 6mm. wt. 15.9 gms.

257 *Spizella passerina* ♀ ad. wt. 11.2 gms.

June 10, Buck Pasture, ele 850', Uof C. Field Station, Hopland, Mendocino Co., Calif.

258 *Psaltiriparus minimus* ♂ imm. (coll by Wm. Longhurst) wt. 5.4 gms

Same as no 251

259 *Cyanocitta stellari* ? wt. 104.9 gms.

June 26 Same location as #238

260 *Sorex* ♂ ^{T.L. 6mm.} 91-33-12-7 wt. 5.1 gms.

2 June 27 Same location as #238

261 *Sorex* ♂ ^{T.L. 5mm} 96-40-12-7 wt. 4.1 gms.

July 2 Same location as #238

262 *Sorex* 96-37-12-7 wt. 3.5 gms.

263 "

July 19 Lookout Point, ele 3000', Uof C. Field Station, Hopland, Mendocino Co., Calif.

264 *Lynx rufus* ♀ ^{Nursing; no embryos} (coll. V. Tuck) 783-129-144-72 wt. 10 lbs 4 ozs.

July 19 James Pasture, ele. 2800', Uof C. Field Station, Hopland, Mendocino Co., Calif.

265 *Sylvia laevis* ♂ ^{T.L. 16mm} (coll. by W. Longhurst) 323-32-73-63 wt. 591.1 gms

July 12 James Pasture, ele. 2800', Uof C. Field Station, Hopland, Mendocino Co., Calif.

266 *Lepus californicus* ♀ ^{No embryos} 608-88-138-143 wt. 3221.3 gms

July 30, James Pasture, ele. 2500', Uof C. Field Station, Hopland, Mendocino Co., Calif.

267 *Procyon lotor* ♂ ^{T.L. 21mm.} 879-307-116-64 wt. 12 lbs 5 ozs. Coll by V. Tuck and B. Burris

1957

Chaparral

- Aug. 5 Orchard Pasture, ele. 2800', VofC. Field Station, Hopland, Mendocino Co., Calif.
 268 *Eutamias* ^{♀ Noembryos} 249-118-38-16 wt 64.3 gms. coll. O. Burris
- May 19, 1955 Napa River, 2 mi S. of Napa, Napa Co., Calif. Napa Co., Calif.
 269 *Elanus leucurus* coll. by Wm. Longhurst
- July 9, 1957 East Vassar Imp. Pasture, ele. 950', VofC. Field Station, Hopland, Mendocino Co., Calif.
 270 *Spinus psaltria* ^{♂ ad.} wt. 9.1 gms.
- July 3, 1957 Hog Lake, James Pasture, ele 2500', VofC. Field Station, Hopland, Mendocino Co., Calif.
 271 *Thryomanes bewicki* ♂ wt. 8.7 gms.
- June 10, 1957 Buck Pasture, ele 950', VofC. Field Station, Hopland, Mendocino Co., Calif.
 272 *Sitta carolinensis* ? imm wt. 16.4 gms. (Coll. by Wm. Longhurst)
- July 6, 1957 Vassar Pasture, ele. 900', VofC. Field Station, Hopland, Mendocino Co., Calif.
 273 *Sialia mexicana* ♂ ad T.L. 4 mm. wt. 22.4 gms.
- Aug. 28, 1957 James Flat, James Pasture, ele 1500', VofC. Field Station, Hopland, Mendocino Co., Calif.
 274 *Geococcyx californianus* ^{sex? imm. crop contained at least 50 grasshoppers.} (coll. by O. Burris) wt. 257.5 gms.
- Aug 22, 57 Orchard Pasture, Chaparral, ele 2800', VofC. Field Station, Hopland, Mendocino Co., Calif.
 275 *Eutamias* ^{T.L. 5 mm.} ♂ 238-116-38-15 wt 60.6 gms. coll. by O. Burris.
- Aug 29. Headquarters Area, ele 900', VofC. Field Station, Hopland, Mendocino Co., Calif.
 276 *Corynorhinus* ^{T.L. 13 mm. T.L. Tail. HF. Ear FA. Tarsus} ♂ 113-39-11-36-44-14 wt. 9.6 gms.
- July 24 Middle Pasture, ele. 1600', VofC. Field Station, Hopland, Mendocino Co., Calif.
 277 *Citellus* ♀ 491-212-59-28 wt. 662.0 gms.
 T.L. 24 mm.
- 278 " " ♂ 475-186-57-27 wt 603.1 gms.
- July 11 Orchard Pasture, Oak Woodland, ele. 2650', VofC. Field Station, Hopland, Mendocino Co., Calif.
 279 *Lepus* ^{T.L. 47 mm.} ♂ 584-79-129-129
- Sept 5, 1957 Buckeye Peak, Foster Pasture, ele 9050', VofC. Field Station, Hopland, Mendocino Co., Calif.
 280 *Odocoileus hemionus* ^{T.L. 63 mm. age} ♂ 1268-219-414-184 wt 71 lbs field dressed.
- Sept 3, 1957 Buck Pasture, ele. 950', VofC. Field Station, Hopland, Mendocino Co., Calif.
 281 *Urocyon cinereoargenteus* ^{Cranium only} sex? imm. Found dead - died between Aug 16 and Aug 25, 1957
- Aug. 8 James Cabin, James Pasture, ele 1500', VofC. Field Station, Hopland, Mendocino Co., Calif.
 282 *Procyon lotor* ♂ imm. found dead from poison at deer trap. Skull only
- Sept. 8 Upper Airstrip Pasture, ele. 900', VofC. Field Station, Hopland, Mendocino Co., Calif.
 283 *Canis latrans* ♀ imm. coll. by J. Poor. Skull only

Sept 30. Saltmarsh, Giant, Contra Costa Co., Calif.

- 284 *Sorex* ♂ T.L. 2 mm. 100-35-11-7 Coll. by S.D. Benson wt. 4.8 gms.
- 285 *Microtus* ♀ No embryos 163-43-20-14 " wt. 44.0 gms.
- 286 " ♀ No embryos 173-49-21-17 " wt. 43.3 gms.
- 287 *Mus* ♂ T.L. 6 mm. 162-78-16-13 wt. 14.7 gms.
- 288 " ♂ T.L. 6 mm. 168-84-17-15 wt. 17.3 gms.
- 289 *Reithrodontomys* ♀ No embryos 149-76-16-14 wt. 9.1 gms.
- 290 " ♂ 159-74-16-15 wt. 13.5 gms.
- 291 " ♀ 2 embryos L.H. 1 embryo R.H. 152-79-16-15 wt. 12.9 gms.
- 292 " ♂ T.L. 6 mm. 145-76-17-14 wt. 9.0 gms.
- 293 " ♀ No embryos 134-68-16-14 wt. 7.1 gms.
- 294 " ♂ T.L. 6 mm. 142-73-16-15 wt. 8.8 gms.

Oct. 8 1.5 mi N. of Vallejo, elev. 50', Solano Co., Calif.

- 295 *Sturnella neglecta* ♂ im. wt. 106.7 gms.
- 296 *Euphagus cyanocephalus* ♂ im. 7400 ± ft. wt. 68.8 gms.

Sept. 25 Sage Hen Cr. Basin, 3 mi N, 5.5 mi W Hobart Mills Nevada Co., Calif.

- 297 *Eutamias* ♀ No embryos coll. by R. Gard 186-68-25-19 wt. 45.0
- 298 " ♀ No embryos coll. by R. Gard 204-76-27-19 wt. 45.5
- 299 " ♂ T.L. 4 mm. 188-71-30-16 wt. 38.5
- ~~300 " ♂ 192-73-30-17 wt. 44.2 gms.~~

Sept. 26 Same location as 297-299, coll. by R. Gard.

- 300 *Eutamias* ♂ 192-73-30-17 wt. 44.2 gms.

Sept. 27 Same location as 297-300 no embryos.

- 301 *Eutamias* ♀ 187-80-31-17 wt. 35.4 gms.
- 302 " ♂ T.L. 6 mm. 192-86-31-16 wt. 45.2 gms.

Oct. 16 3.5 mi. SE Cholame, San Luis Obispo Co., Calif.

- 303 *Perognathus* ♂ 203-115-26-14 (wt. 23.5) Coll. by S.F. Cook Jr.
- 304 " ♀ No embryos 180-100-22-11 (wt. 17.9) Coll. by S.F. Cook Jr.
- 305 " ♂ T.L. 3 mm. 194-111-25-13 (wt. 5.1 gms) Coll. by S.F. Cook Jr.
- 306 *Dipodomys* ♂ 200-102-40-11 (wt. 67.7 gms) Coll. by S.F. Cook Jr.
- 307 " ♀ No embryos 292-168-43-19 (wt. 79.7 gms) Coll. by S.F. Cook Jr.
- 308 " ♂ T.L. 12 mm. 285-160-43-17 (wt. 6.6 gms) Coll. by S.F. Cook Jr.
- 309 " ♀ no embryos 281-161-42-16 (wt. 6.7 gms) Coll. by S.F. Cook Jr.
- 310 " ♀ 276-162-41-16 (wt. 18.5 gms) Coll. by S.F. Cook Jr.
- 311 *Peromyscus* ♂ T.L. 8 mm. 153-69-19-16

Emm

Emm

457

- (cont)
- Oct. 16 3.5 mi. SE Cholame, San Luis Obispo Co. Calif (Colby S.F. Cooks.)
- 312 *Peromyscus* T.L. 85 mm. ♂ 149-69-19-18 (wt. 19.1 gms.)
3 embryos L.H. (4 2 eggs)
- 313 " ♀ 147-66-20-17 (wt. 17.8)
5 embryos
- 314 " ♀ 152-68-20-16 (wt. 22.1)
- 315 " ♂ 155-71-19-17 (wt. 18.5)
T.L. 8 mm.
- 316 " ♂ 153-69-19-17 (wt. 16.4)
T.L. 10 mm.
- 317 " ♂ 153-67-18-17 (wt. 17.2)
T.L. 10 mm.
- 318 " ♂ 157-71-20-17 (wt. 21.3)
embryos 1 L.H. 2 R.H.
- 319 " ♀ 161-72-20-17 (wt. 18.7)
- Nov. 11 Mitterton Gulch, 2 1/4 mi N.E. of Laverne, ele. 250 ± ft., Marin Co., Calif.
T.L. 24 mm.
320 *Urocyon* ♂ 900-350-131-75 wt. 8 lbs 1 oz.
- ~~July 2~~ Lake Field Pasture,
July 9, East Vassar Imp. Pasture, ele 950', U.C. Field Station, Hopland, Mendocino Co. Calif.
322 *Spinus psaltris* wt. 8.8 gms.
323 *Tyrannus* wt. 38.5 gms.
- Aug 3, Vassar Pasture, 1000' UC Field Station, Hopland, Mendocino Co. Calif.
T.L. 1.5 mm.
324 *Tachycineta thalassina* ♂ ad. wt. 15.1 gms.
- Aug. 2 James Pasture, 1100' U.C. Field Station, Hopland, Mendocino Co. Calif.
Call. O. Buttrick.
325 *Balanosphyra formicivora* wt. 70.4 gms.
- June 15 Hog Lake, 2500', UC Field Station, Hopland Calif (Mendocino Co.)
no embryos
326 *Peromyscus* ♀ 185-94-21-18 wt. 22.2 gms.
T.L. 11 mm.
327 " ♂ 204-104-23-25 wt. 33.4 gms.
T.L. 6 mm.
328 " ♂ 195-100-23-18 wt. 22.1 gms.
T.L. 6 mm.
329 " ♂ 193-100-23-18 wt. 25.0 gms.
nursing 1 embryo L.H. 2 R.H.
330 " ♀ 197-100-22-19 wt. 25.8 gms.
T.L. 9 mm.
331 " ♂ 161-69-21-18 wt. 21.4 gms.
embryos 1 L.H. 2 R.H.
332 " ♀ 173-76-20-18 wt. 23.3 gms.
T.L. 7 mm.
333 " ♂ 173-69-19-17 wt. 19.0 gms.
T.L. 10 mm.
334 " ♂ 157-69-19-18 wt. 20.0 gms.
no embryos
335 " ♀ 169-72-19-17 wt. 22.0 gms.
no embryos
336 *Microtus* ♀ 174-49-20-17 wt. 51.0 gms.
- July 16 Buck Pasture, 950 ft, UC Field Station, Hopland, Mendocino Co. Calif.
T.L. 3 mm.
337 *Scapanus* ♂ 176-35-21 wt. 83.4 gms.
338 193-39-23 wt. 88.6 gms.

958

July 2	Lake Field Pasture, 900', UC Field Station, Hopland, Mendocino Co. Calif.	
339	Sorex	90-38-11-8 wt. 3.8 gms.
340	"	88-37-11-8 wt. 3.6 gms.
341	"	90-36-11-8 wt. 3.4 gms.
June 27	Lake Field Pasture, 900', UC Field Station, Hopland, Mendocino Co., Calif.	
343	Sorex	T.L. 15 mm. ♂ 90-36-12-8 wt. 3.3 gms.
344	Reithrodontomys	T.L. 6 mm. ♂ 137-69-17-13 wt. 7.5 gms. 4 embryos.
345	"	♀ 139-71-18-13 wt. 9.72 gms. T.L. 7 mm.
346	"	♂ 144-73-17-13 wt. 9.2 gms. 3 embryos.
347	"	♀ 140-71-16-14 wt. 10.9 gms. T.L. 6 mm.
348	Microtus	♂ 169-45-20-14 wt. 45.4 gms. T.L. 9 mm.
349	"	♂ 188-55-21-16 wt. 56.9 gms.
June 8	Watertank Field, 900', UC Field Station, Hopland, Mendocino Co., Calif.	
350	Peromyscus truei	T.L. 11 mm. ♂ 198-98-23-22 wt. 27.9 gms.
351	"	T.L. 7 mm. ♂ 199-97-23-23 wt. 28.6 gms.
July 22	Orchard Pasture, 2800', UC Field Station, Hopland, Mendocino Co., Calif.	
352	Peromyscus	T.L. 14 mm. ♂ 212-105-23-22 wt. 33.7 gms. 3 embryos (1 small)
353	"	♀ 207-107-22-23 wt. 35.6 gms. no embryos
354	"	♀ 185-101-21-22 wt. 21.6 gms. no embryos
355	"	♀ 199-100-22-23 wt. 27.4 gms. 3 embryos.
356	"	♀ 172-77-19-19 wt. 28.8 gms. no embryos.
357	"	♀ 142-68-19-18 wt. 13.5 gms. no embryos
358	"	♀ 152-73-19-17 wt. 13.1 gms. no embryos
359	"	♀ 154-71-19-16 wt. 14.4 gms. no embryos
360	Microtus	♀ 157-49-22-16 wt. 33.3 gms. T.L. 5 mm.
361	"	♂ 169-48-20-17 wt. 51.0 gms.
June 28	James Cabin, 1500', UC Field Station, Hopland, Mendocino Co., Calif.	
397	Corynorhinus	T.L. 10 mm. (N) (H) (F) ♂ 101-48-10-36-16-41 wt. 8.7 gms.
398	Myotis	T.L. 4 mm. (N) (H) (F) ♂ 76-38-7-13-8-31 wt. 3.8 gms.
June 26	Parasitic Pens, 1200', UC Field Station, Hopland, Mendocino Co., Calif.	
399	Myotis	T.L. 2 mm. (N) (H) (F) ♂ 68-30-6-12-5-31 wt. 2.7 gms.
400	"	(N) (H) (F) ♂ 66-30-5-12-6-29 wt. 2.2 gms.
401	"	(N) (H) (F) ♂ 47-15-5-7-2.5-15 wt. 1.2 gms.
402	"	(N) (H) (F) ♀ 40-11-5-7-2-12 wt. 0.8 gms.

Thacker
1957

June 26

July 12 Parasite Pens, 1200', UC Field Station, Hopland, Mendocino Co., Calif.

403 Myotis

♀ no embryos (N) (E) (F)
51-16-6-9-3-20

wt. 2.1 gms.

404 "

♀ lactating (N) (E) (F)
81-35-8-14-5-33

wt. 5.2 gms.

405 "

♀ no embryo (N) (E) (F)
81-37-7-13-8-31

wt. 4.7 gms.

406 "

♀ no embryos (N) (E) (F)
80-37-6-13-7-32

wt. 2.9 gms.

407 "

♀ lactating (N) (E) (F)
81-36-6-13-7-33

wt. 2.8 gms.

408 "

♂ T.L. 1.5 mm (N) (E) (F)
74-34-6-12-6-31

wt. 2.6 gms.

409 "

♀ lactating (N) (E) (F)
82-38-6-13-7-32

wt. 2.7 gms.

July 12 Parasite Pens, 1200', UC Field Station, Hopland, Mendocino Co., Calif.

410 Myotis

♀ no embryos (N) (E) (F)
71-31-7-13-6-33

wt. 2.5 gms.

411 "

♀ no embryos (N) (E) (F)
74-37-7-13-6-31

wt. 2.6 gms.

412 "

♂ T.L. 1 mm (N) (E) (F)
74-36-6-14-6-31

wt. 3.3 gms.

413 "

♂ T.L. 1 mm (N) (E) (F)
75-34-6-13-7-33

wt. 2.7 gms.

414 "

♂ T.L. 1 mm (N) (E) (F)
76-36-6-14-6-31

wt. 3.5 gms.

415 "

♂ T.L. 1 mm (N) (E) (F)
79-36-6-13-7-31

wt. 4.2 gms.

416 "

♂ (N) (E) (F)
80-37-6-13-7-31

wt. 2.6 gms.

Aug. 29 Hdqts. area, 900', UC Field Station, Hopland, Mendocino Co., Calif.

417 Myotis

♀ no embryos (N) (E) (F)
80-36-7-14-7-33

wt. 4.0 gms.

~~418 "~~~~♀ (N) (E) (F)
84-39-7-13-7-33~~~~wt. 4.7 gms.~~

419 "

♀ no embryos (N) (E) (F)
78-38-7-13-8-33

wt. 3.8 gms.

aele
157

Jan 8 Thirty eight traps (museum specials) set out in Strawberry Canyon, of U. of C., Berkeley, Alameda Co., Calif. about 0.6 mi E of stadium. Traps were placed on the south-facing slope of the canyon in an area covered by grass and annual plants. Traps were placed out at 3:00 PM.

Jan. 9 The traps were recovered at 9: AM. Weather the previous night had been cold and clear, frost was still evident on the ground. Seven Reithrodontomys megalotis were taken. Six were prepared. - nos 146-151. At one place groundwater caused only green grass in the area. 4 specimens were taken with a 10' rod here.

Jan. 21 Berkeley, Alameda Co., Calif. Left Berkeley at approx 8:30 P.M. E Richard Banks, John Ondrias, and Walt Muhlback. Traveled ^{to} Rt. 50 via Walnut Creek, hence to Rt. 99 via Rt. 132.

Chowchilla, Madera Co., Calif. at 11:30 PM. coffee break. 150 mi

Jan. 22 ~~Bakersfield~~ ~~Bakersfield~~ Kern Co., Calif at 3:30 AM Coffee break. 300 mi
Coulton, San Bernardino Co., Calif. (177 mi.) Breakfast stop at 8:00 AM, arrived Perris Area, San Jacinto Valley, Riverside Co. Calif at 9:00 AM. Drove through Lake View Mtns. Land cultivated to base of hills. Mtn area rocky & sagebrush and scrub. Drove on by Winchester and north on Warren Road, North of Rt. 24. Seen ravens, Say's Phoebe, Horned Lark, House Finch, Savannah Sparrow. One small pond saw 4 Ruddy Ducks, 8 Coot., 8 Pied-billed Grebe. Just S of San Jacinto River saw 5 Ks. winged Teal. 10 4 ♀♀. Cont North and West to Rt. 79. Turned N.W. over Jackrabbit Trail thru the Badlands on the N.W. side of the San Jacinto Valley. N.E. along Rt. 60. Turned off ^{north} Rt. 60 about 1 mi (elev. 1850 ±) from junction Rts 60 and 79. up canyon for about 1/2 mi. Arrived 11:30 AM. Canyon walls covered with sonoran scrub, grassland, and chaparral. During the afternoon saw Red Tail 1, Bush Tits 8 ±, Gnatcatchers 3+, Brown Towhee, Ravens, Crows 25+, Goldfinch, Say's Phoebe, Cal Quail one covey 25 ±. Total of 64 traps set. I set twenty up a side canyon, along sage and scrub slopes with bottom covered with other broad leaf vegetation. Continued on toward at 2:05 PM. Drove south along west side of Mt. Russell, turned West ~~up~~ up south shoulder of Mt. Russell. Set traps in area

near road at saddle ele. 1800'. R. Banks and I set 45 South of road on area covered by sage and higher on area with Rock antcrosses and sage. 4 Schyler traps along top of ridge. Ondrias and Muhlback set 48 traps across the road. Ondrias and I set 25 traps along ~~S.E.~~ slope of Mt. Russell just above cultivated area at elevation of 1550'.

During Upon verification of permission with George Henson for camping on Mt. Russell's South east side. Ondrias and I chose the area for camping was an East running draw at about 1700' ele. Two traps sprung during dinner one yielding a Peromyscus and another a Dipodomys. After dinner attempts were made to net small mammals seen in the headlights of the car. Walt took one Peromyscus along road from valley up to our camp, about .7 mi above the valley. About equal nos. (8 each) of Dipodomys and other small forms were seen. We continued on eastward south to Lakeview and repeated our route of the A.M. No other Rips were seen except when we approached ~~our~~ the Mt Russell area again (2 seen on the NW slope of the Bernerconi Mtns. One jackrabbit (Lepus californicus) was found dead in the Lake View Mtns. .7 mi N. of the road junction at Juniper Flats. Back to camp by 10 P.M.

June 23 Up at 8:00 A.M. Dick and I got 1 Peromyscus with long tails from the alluvial fan of ~~the~~ on the south slope of Mt. Russell, and 5 ~~short-tailed~~ Peromyscus, also 2 Dipodomys. Long tailed Peromyscus were taken from the ^{adjacent} rocky slopes. Two Neotoma and one Perognathus were also taken from the rocky area. John and Walt got a similar distribution of their 7 Peromyscus and one Dipodomys. John and I got two Dipodomys, one Perognathus, 5 long-tailed, and 8 short-tailed Peromyscus from sage and scrub slope covered with thick grass just above the cultivated valley floor ele. 1550', S.E. slope of Mt. Russell.

I had one Peromyscus from the badlands while Dick took one Peromyscus californicus from near a woodrat house. Walt and John had 2 Dipodomys from a canyon bottom covered with wild lilac also one Peromyscus. Traps were set in this habitat in an effort to take more

Thaler
1957

Dipos. Rat traps were set for at several Neotoma houses. ^{Saw Roadrunner just above cultivated field}

Returned to Camp at Mt. Russell ^{by} 2:30 P.M. Weather clouded up and began to rain. Skinning operations were carried on in the car. About 8 P.M. we drove to San Jacinto to obtain motel accommodations for the night (\$5.00). Continued skinning until after midnight.

Jan. 24. Up by 7:30 A.M. - still raining Dick, John, and Walt returned to pick up traps. ~~██████████~~ I remained to continue preparation of specimens. The others returned at about noon. The trapping results were as follows: Mt. Russell, ele. 1850' Peromyscus (long-tailed), Peromyscus (short-tailed) ^{ele. 1550'}, Perognathus, Dipodomys, Badlands Neotoma, Peromyscus.

At about 4.00 P.M. left San Jacinto Motel for south. Rt. 79 to Rt. 71. Stopped to shop at Aguanga at about 4:30 P.M. Cont. south to Warner Springs (5:45) P.M. 4 mi. South from Warner Springs turned East. Crossed Rt. 78 continuing approximately SE down Earthquake Valley and into Vallecito Valley. Camped 1.0 mi. N.E. of Agua Caliente in Vallecito Valley. 40 traps set out. Turned in about 11:00 P.M.

Jan. 25. Up at 7:00 A.M. Walt said he had heard coyotes at about 4:30 A.M. as the moon rose. (I slept thru it.) Traps yielded one Dipodomys. About 10:30 A.M. Continued south to Canelake Canyon on south side of Vallecito Valley. As we proceeded up the canyon we met Mr. Egger, of

. We secured the use of one of his cabins through his generosity. Traps were set in a nearby side canyon and across the ~~out~~ dry streambed of the main canyon. The area was very rocky and covered with only sparse vegetation including barrel cactus,

(40 Trap). Dick set traps in similar area farther up the valley. Here a spring furnished water that supported a stand of tall (15') cane (sp?). Despite trapping no mammals were taken during two nights of trapping.

The bird life in the canyon included Phainopepla, Say's Phoebe, Costa Hummingbirds, Robins, Audubon's Warblers, Orange-Crowned Warblers and White Crowned Sparrows.

Data on specimens not prepared.

South slope of Mt. Russel, ele 1850, Riverside Co., Calif Jan. 23. 1957

Peromyscus ♀ 197-109-22-19 17.3 gms
 o n ♂ 196-108-21-18 17.2 gms
 ♀ ^{nursing} 184-80-19-18 19.3
 ♂ 165-69-20-18 23.4
 ♂ 179-79-20-17 22.1 testis visible externally
 ♂ 145-62-20-19 15.0
 ♀ 156-67-20-18 16.7
 ♂ 156-69-19-17 18.5

South East slope of Mt. Russel el. 1550. Riverside Co, Calif.

Peromyscus ♀ 151-69-19-16 15.0
 ♂ 210-114-21-19 23.0
 ♂ 194-101-22-18 19.8
 ♂ 188-108-20-18 16.0
 ♂ 190-106-21-18 18.3
 ♂ 171-77-20-17 20.3
 ♀ 147-62-19-16 19.8

Badlands 1 mile east of jct 60+79. el. 1550, Riverside Co, Calif.

♂ 199-111-21-17 15.2
 ♀ 214-122-21-17 21.4

Jan. 24, 1957 Badlands

Peromyscus ♂ 198-107-20-17 20.0

South slope MT. Russel, 1850 ft., Riverside Co., Calif.

Peromyscus ♂ 200-116-20-16 18.1

♀ 144-60-18-15 13.8 immature

South East slope of Mt. Russel el. 1550 Riverside Co, Calif.

Peromyscus ♂ 164-71-22-16 20.3
 ♂ 161-69-20-16 20.5
 ♀ 149-63-19-15 13.6
 ♂ 162-75-20-16 22.4
 ♀ 153-63-18-15 19.3

Traps were also set in desert of valley floor at ele. of 900' at mouth of Canebrake Canyon. (50 traps). One sage thrasher was collected in the vicinity of traps. Vegetation here included barrel cactus, that formed ~~up~~ widely dispersed discontinuous cover.

After working on skins until midnight we turned in.

Jan. 26 Trapping results were as follows: from ^{Eggers} Cane Brake Canyon ele. 1100' Peromyscus (light colored), Peromyscus (darker), Perognathus 1, from valley floor at mouth of Canebrake Canyon, ele 900' one Dipodomys.

About 10:00 AM we crossed the ^{Vallecito} Valley to Tres Palmas. This area was at the foot of badlands on the north side of Vallecito Valley. There were extensive stands of Mesquite and a small spring. Phainopepla and Western Bluebirds formed the dominant bird life. ^{Brewer's sparrow} also present were Sage thrashers, ^{Cactus bluntnose} Robins, Mockingbirds, Audubon Warblers, quailcatchers, one cinnamon teal. 40± Canada Geese flew overhead and off toward the ^{north} west. After several hours of collecting we returned to Eggers. Verdins and White Cr. Sparrows were seen in valley while re-^{turning}.

About 3:00 P.M. we set Macabee traps (11 sets) for gophers in an area of very active diggings.

~~At Tres Palmas we set traps for gophers.~~

Jan. 27 Weather cleared by 9:AM. Traps from around Eggers yielded Citellus, 2 Urocyon (♂ and ♀) Peromyscus (light colored) Peromyscus (darker), Perognathus 2, Thomomys 2. Traps from the valley yielded nothing. ~~Especially~~ Activity was restricted to specimen preparation.

It rained during the night. Traps were set at Tres Palmas.

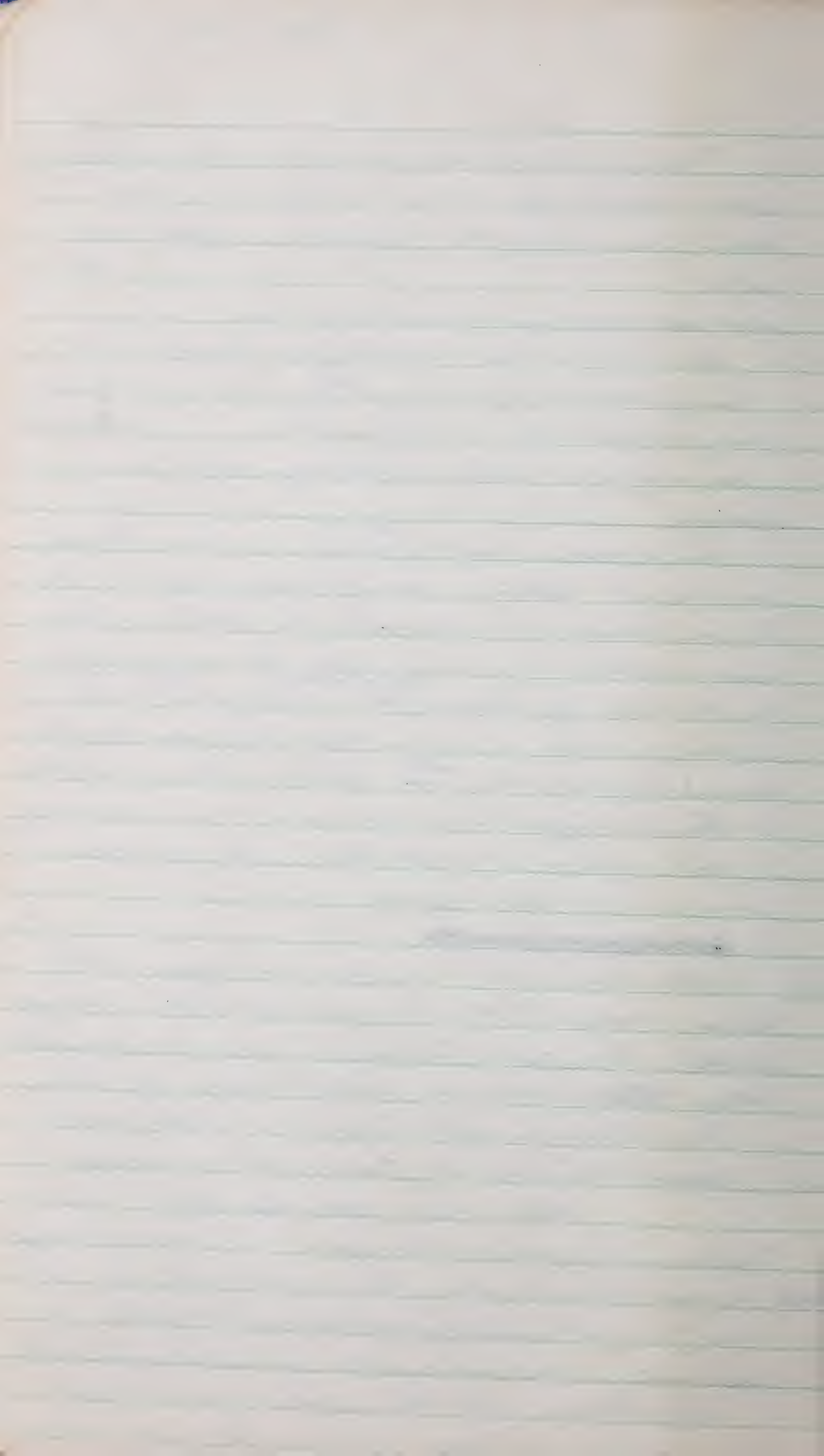
Jan. 28 Returned to Tres Palmas early. Traps yielded one Dipodomys, Collected one Verdin. Gopher traps yielded animals.

Traps from around Eggers yielded Peromyscus and one Thomomys.

Jan. 29 Rain during the night continuing thru the day, after a mixed snow. Over two hundred traps yielded one Perognathus.

Such results and inclement weather convinced us to leave

Off at about 2:30 P.M. We encountered don more snow above 1500'. We proceed N.W. to Rt. 78 and East to the Salton.



Sea, North on Rt. 99 to Indio and West to Riverside, Rt. 66 over
9:00 P.M.
Cajon Pass with the aid of chains, and north on Rt 365 to Kramer,
West on Rt 66 to Bakerfield at 2:30 AM

Jan. 30 Continued north on Rt. 99 to Berkeley about 9:00 AM.

Expenses: Food

Car

Specimens collected ~~by~~ by all members of trip:

Mt. Russell: *Perognathus californicus fallax* 4

Neotoma lepida gilva 2

Dipodomys agilis

Peromyscus

Peromyscus

Badlands: *Neotoma fuscipes macrotis* 4

Peromyscus

Peromyscus

Dipodomys agilis

Vallecito Valley: *Dipodomys merriami* 3

Thomomys bottae

Peromyscus

Peromyscus

Perognathus penicillatus angustirostris 2

Perognathus spinatus rufescens 2

Citellus leucurus 1

Urocyon cinereoargenteus 2

Neotoma fuscipes macrotis 1

Sialia mexicana

Phainopepla nitens

Auriparus flaviceps 1

Oreoscoptes montanus

Dendroica auduboni

Total: 82

Jaeger,
957

Feb.

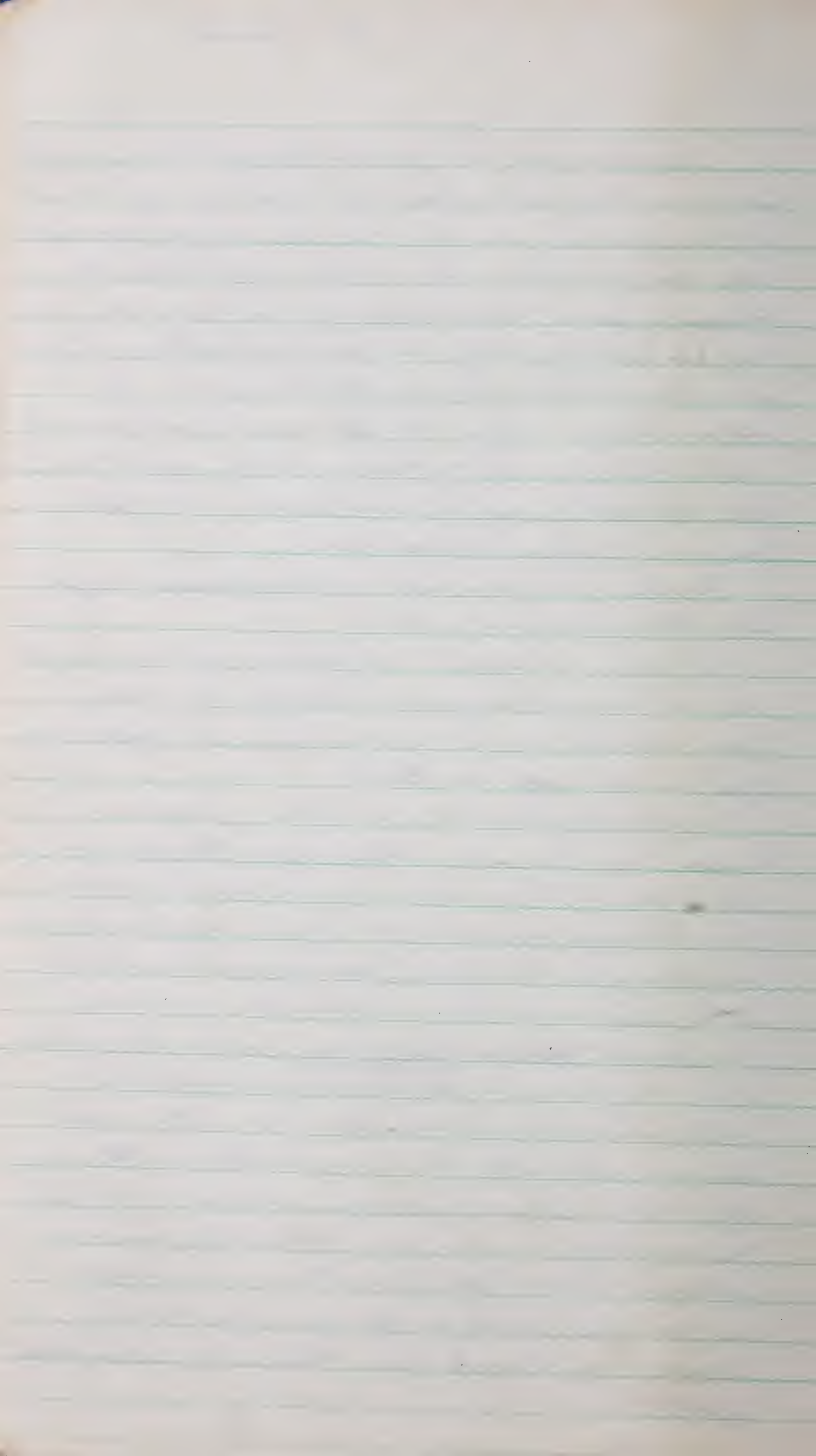
Jay and I went to the Berkeley Municipal Pier. at 2:30 P.M. Saw Common loon, eared grebes, western grebes in bay. Coot and a ♀ merganser were seen along the east end of the pier (rock edge). Short-billed Gulls, California Gulls, Ringed-billed Gulls, Glaucous-winged and Western Gulls, least sandpipers were seen base of pier opposite the dump. One short-billed Gull was rapidly moving this feet (alternately) in a slight depression in the shallow water of a mudflat. This action seemed to stir up small animals from the mud that it would then grab in his beak. Such paddling would be carried for from 3 to 8 seconds. Only one gull performed these maneuvers.

The gulls in the dump were mostly Glaucous-winged and with a scattering of westerns.

The lake in the Aquatic Park (Berkeley) had 2 cormorants (sp?) one ♂ Red-breasted merganser, eared grebes, Horned Grebes, Greater yellow-legs, Am. Pipit, least sandpipers, Am. egret, snowy Egret, Baldpate, buffle-head, Pintail.

Feb, 9

Left Berkeley at 8:00 AM. with Dr. Pitelka, J. Schnell and Gordon Oriens. across San Rafael bridge. Note extensive salt marshes N. of Pt. San Pedro along San Pedro Rd. Visited Broad sclerophyll Association on highlands East of San Rafael. Continued, ^Nwest from San Rafael thru Fairfax to Samuel P. Taylor St. Pk. which we drove thru. Investigated a stand almost pure Laurel at ~~T~~ ^{Cal}aloma. Small flock of Townsend's Warblers ^{and chickadees} (5 or 6) with Ruby-crowned Kinglets. Dr. Pitelka remarked that in this instance the warblers seemed to be the most numerous species instead of the usual situation ~~the~~ where the (these) warblers are merely an addition to the flock. One Hairy Woodpecker was also seen. Stopped for lunch at west end of Lucas Valley. The weather was overcast and deer were visible on the open, grass covered slopes. Over 40 were seen. Returned to Berkeley about 2:30 P.M.



Feb. 13

Left Berkeley about 2:00 PM ^{with Marianne}. Drove to Martiney ^{Central Coast Co.} near Saffette and Pleasant Hill. Spent about an hour looking over the nearby salt marshes. The area directly north of Martiney appeared very wet, the vegetation being ^{2-3'} rushes. It seemed unsuitable for small mammals. Marshes $\frac{1}{2}$ mi N.E. of Martiney were inaccessible because of intervening oil refineries. The marsh area along the Martiney - Aven Road 1.5 miles from Martiney (E.N.E.) posted north of the road and heavily grazed south of the road. Traps were set in the marsh area 2.4 mi. E.N.E. of Martiney. This marsh stretches along Suisun Bay for about 5 miles extending inland ~~also~~ from 1 to 2 miles. In the area were 1 set traps Salicornia was the dominant vegetation. This small (1-2' wide) ~~these showed many rodent burrows and scats~~ Area contained several drainage ditches. The earth dug from these furnished higher land that was covered with a variety of vegetation a grass ^(?) with leaves in ~~thick~~ whorls being the most abundant. At this time the vegetation was almost all dead. Only occasionally ~~were~~ ^{did} individual Salicornia show fresh growth. The adjacent high ground is grass, heavily grazed & a few scattered bushes and trees. A dump is located about 0.3 mi East of the area trapped. ^{at about 5 yard intervals} Ninety traps were set. ^{one of the} Forty five were set along the higher ground bordering the ditches. The other 45 traps were set in the pure Salicornia which in some places had shallow (>1 in) water over it. Debris in the Salicornia indicated that exceptionally high tides flood the area.

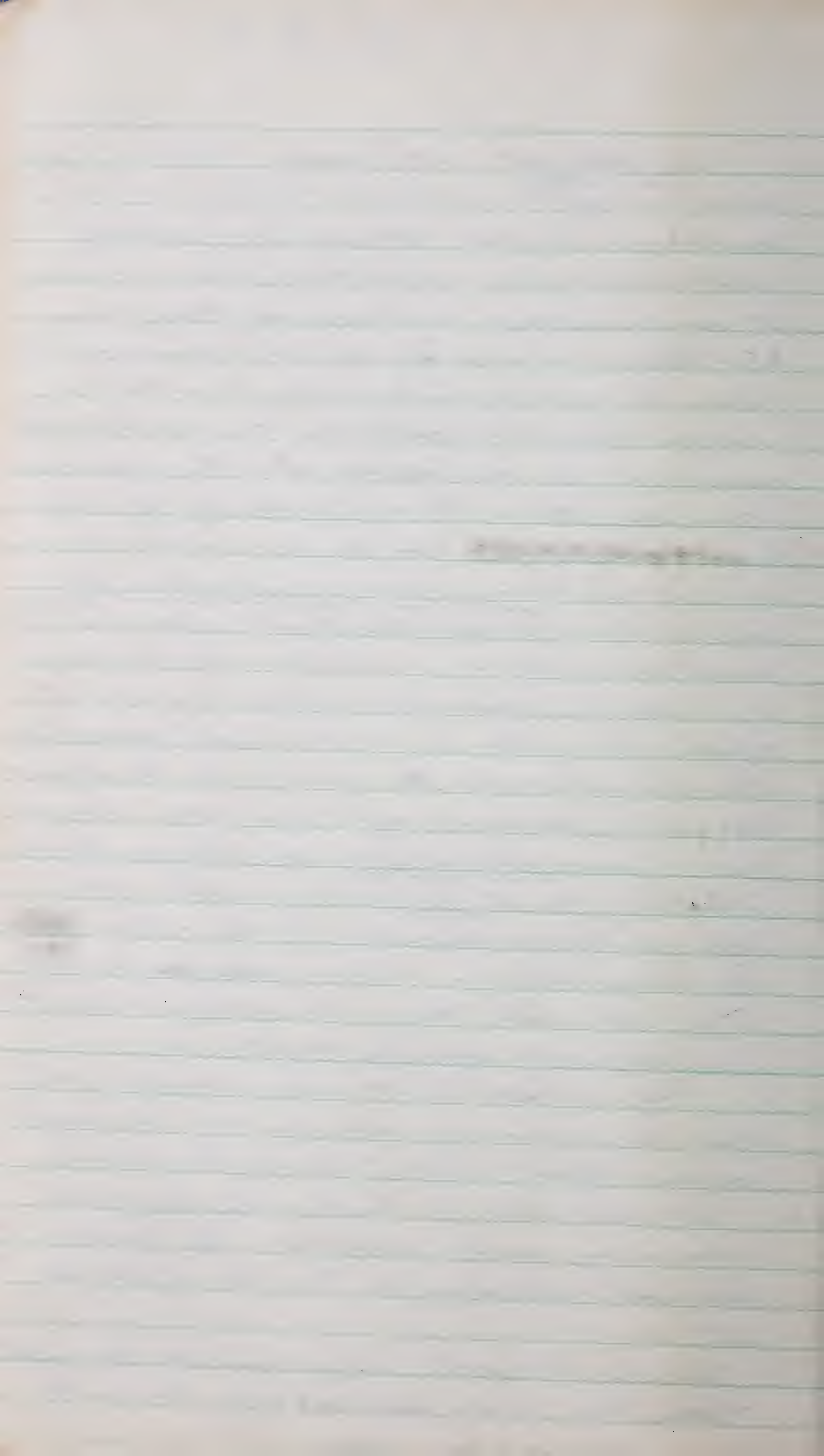
Three marsh hawks (1 ♀ 2 ♂♂) were seen hunting over the marsh. Song sparrows were seen commonly in the higher vegetation. A flock of 8 Greater Yellowlegs flew overhead.

Feb. 14

Left Berkeley at 7:00 AM. The traps from the ditch yielded 17 Reithrodontomys raviventris halocetes, 6 Mus. The other traps yielded 6 Reithros and one Mus. Returned to Berkeley by 9:20 AM.

Feb. 15

Left Berkeley at 10:20 AM. The traps from the ditch yielded 17 Reithros, 4 Mus, 3 Microtus californicus, 1 Sorex. Those from the Salicornia 13 Reithros, 2 Mus, 1 Sorex.



Feb. 16. Left Berkeley at 8:30 AM c. Al Ziegler. Traps from the ditch yielded 14 *Reithro* and 4 *Mus* and 2 *Sorex*. The other traps yielded 15 *Reithro* and 2 *Mus*. In an area about 0.4 mi N.W. of originally trapped we found signs of more active *Microtus* population (recent grass cuttings, fresh scats). This area was along a ditch about 20 yards from the high ground adjacent to the western edge of the marsh. 100 traps were set here. Al found the remains of a *Sepus* in the marsh. 3 Pheasants 1 ♂ 2 ♀♀ were seen near the marsh edge. (in the marsh)

~~Left this area at about 12 noon and~~ Proceeded to Pinole, Contra Costa Co. Marsh area 1.5 mi N.N.W. of Pinole was investigated. The N.E. part of the marsh on the N.W. side of the Sou. Pac. R.R. tracks showed signs of recent *Microtus* work. In several places recent *Salicornia* growth had been cut and eaten. Fresh scats were observed. The *Salicornia* was generally dried and brown, however more recent growth was evident than at Martiney Marsh.

To the N.E. of this marsh the access to shore areas is restricted by the Hercules Powder Co. (Hercules, Contra Costa Co.)

Returned to Pinole and continued S.W. along Rt. 40. Marsh S.W. of Pt. Wilson could be seen from the road (Rt. 40). Entered ^{San Pablo} ~~Contra Costa Co.~~, and drove north out of town on road to Giant. Proceeded beyond Giant toward Penole Point until road entered restricted area of the Atlas Power Co. Returned to San Pablo and turned W. on County Road #20 along the north side of San Pablo Creek. 0.4 mi W of Richmond City Line turned north. Proceeded to Richmond Rod and Gun Club. Marsh in this area appeared suitable for trapping. Saw v. dark Red-Tailed Hawk. Throat and breast rufous buff and belly brown-black, Tarsus were naked. Hawk perched on ground in open field with sparse low vegetation. Several times he took flight and after a couple of seconds again perched on the ground.

Continued on back to Berkeley. Al mentioned seeing caretaker of San Pablo Hunting Club to trap at Point Isabel. His house is

the 2nd one on the left as one drives out on Pt. Isabel. Flock of more than 300 gulls were congregated in open area (parking area?) South of Golden Gate Fields, W. of East Shore Hwy. These gulls seemed separated to a certain extent by species. Western and Glaucous-winged seemed to remain together. (Glaucous-winged were far more abundant) Ring-billed were present in some number and associated with a couple of short-billed and several Californians. Two young gulls ~~showed~~ were very light brown and showed light colored primaries. They may have been Glaucous Gulls.

Returned to Berkeley at about 2:00 P.M.

Feb. 17

Left Berkeley at about 9:15 A.M. with Al Ziegler and Marianne Hobbs. The traps at the marsh at Martinez yielded the following trapping results: those that had been in operation for the 4th consecutive night along the ditch - 15 Reithros, 2 mus, 2 mics. and those in the open area 17 Reithros and 3 mus.

The one hundred traps set on Feb. 16 near the edge 0.4 mi N.W. of ~~the~~ previous area: 22 Reithros, 5 mus, 7 mics, 2 sores. All traps were taken up. Returned to Berkeley about 11:45 A.M.

Feb.

Left Berkeley with Paul Anderson @ 8:30 A.M. Took dept. boat to Brooks Island, (San Francisco Bay), Contra Costa Co., 190 traps were set mostly along the lowland of the south shore and the adjacent area on the hill. This represented most of the area burned the previous fall (approx. Oct, 1956 according to P. Anderson). The lowland area showed many tracks presumably made by rats (Rattus). One was aroused from a nest and utilized them in its escape. Returned to Berkeley by 2:00 P.M.

Feb.

Returned to Brooks Is. with Jay Schnell. Weather was poor; rain, stiff breeze from N.W., followed by fog. Previous night, however, not raining. Trapping results were as follows: 4 mus, one eaten entirely, identification by lower jaw which was found near trap. According to P. Anderson there was a high density population of Microtus prior to the fire mentioned above.

keeler
1957

Pg 12

Journal

Apr. 10 Left Berkeley at 1:00 P.M. with Marianne Hobbs for saltmarsh area near Pinole (0.7 mi N, 0.2 mi W.), Contra Costa Co. The *Salicornia* here ~~was~~ ^{had} new growth. Some *Microtus* workings were seen on raised ground adjacent to drainage ditches. This raised ground was covered by grass and perennial shrubs as well as a little *Salicornia*. Traps (25) were set along this raised ground. 25 traps were set along railroad embankment that had a heavy grass cover. Both these lines were parallel and near the eastern (inland) side of the marsh. 45 traps were set along slightly raised ground covered by only *Salicornia* and in the adjacent part of the marsh. No *Microtus* signs were seen in the marsh proper.

Apr. 11 Returned to Pinole marsh at 8:30 P.M. Trapping results were: *Microtus* 2 ; *Reithrodonomys* ; and *Mus*. All ~~Microtus~~ were taken along raised ground mentioned above (Apr. 10) all but one *Reithrodonomys* were taken in the same series of traps as the *Microtus*.

Apr. 12 Trapping results at Pinole were: *Microtus* 3 ; *Reithrodonomys* ; *Mus* . Traps checked at 7:30 A.M. *Microtus* and *Reithro* were again taken along raised ground.

Apr. 13 Trapping results at Pinole were: *Microtus* 2; *Reithro* 2 ; *Mus* 18 . *Microtus* from the same place but 2 *Reithro* were taken in the *Salicornia*. The traps were removed from the railroad embankment and placed along the raised ground along the drainage ditch W. of the previously placed traps which were not moved. The remaining 45 traps were placed along the top of the high ground between the marsh and the beach. This area is covered by grass and woody shrubs of max height of 15". Signs of *Microtus* seen in this area.

Apr. 14 Traps checked at about 2:00 P.M.: *Microtus* 0; *Reithro* 3 ; *Mus* not saved but about 15 caught. Accompanied by Marianne Hobbs. Both *Microtus* were taken along raised sand in marsh. ^{Reithro in both places.} Rain of previous night flooded usually dry area.

Apr. 15 Traps checked at 7:30 A.M. *Microtus* 2 ; *Reithro* 1 ; *Mus* not kept but about 10 taken. No *Microtus* from high area beach. ^{Also are long grassy areas}

hacker
1957

Pg 13 Journal

Apr. 16 Traps checked at 7:30 AM. Microtus 2; Reithras 4. ~~10 Mus.~~
Both Microtus were taken in Marsh on raised ground.

Apr. 17 Traps checked at 7:30 AM.

Apr. 18 Traps checked at 8:00 AM. Microtus 2, Reithras 0, Mus 6.
Traps were taken up. 720 trap nights had been run in this marsh.

Jun 4 Saw a White-tailed Kite as I crossed Russian River just east of Hopland, Mendocino Co., at about 5:45 P.M. Returned at 7:40 P.M. One kite appeared over trees along south side of Hayfield, south of Lakeport Road, 2.5 mi E of Hopland (just W of Russian R.) Bird flew west over field, second bird appeared. Both gliding and hovering, Attacked by two Redwings and driven back across field. Both birds perched in trees along west bank of river about 50' apart and 30' up. Male made one pass at female, slow swoop. Then ♂ attempted copulation for about 5 seconds. ♀ accepted - no visible effort made to ~~to~~ fly away. ♂ had wings extended but bent back at "writ," fluttering slightly during attempted copulation. Both flew off, disappearing beyond trees to the south and west. ♀ recognizable because of two inner tail feathers missing. ♂ reappeared briefly, perched in sight for about 5 minutes, disappeared again, not reappearing by 8:07.

Both birds sighted again in same general area at 8:15 P.M. from ~~Lakeport~~ sideroad which parallels the river on the east.

Jun 7 Numerous birds seen during the week while working. Brewer Blackbirds common around station Hdqts. One pr. of Black Phoebe still with nest first noticed May 17. Calif. Wdps. abundant everywhere. Brown Towhee ~~common~~ ^{greenbacked. (?)} esp around Hdqts. Lark sparrows, ~~and~~ and goldfinches common to ab. in open or mostly open pastures.

Kingbird

Western ~~flycatcher~~ common in situations where mostly pasture and scattered trees. Ash-throated Flycatcher common usually where more trees than situations favored by Western Kingbird. Violet-green Swallows common throughout area. Calif. Jay common where scattered trees, Steller's Jay in more wooded situations. Crow and Ravens both present, the Raven being perhaps the more common of the two. Plain titmouse common in wooded and woodland areas. White-br. Nuthatches observed in areas c Plain tits. Bush-tits common in areas c Plain titmouse. Bewick's Wren seen around Hdgts. Robins common in woods ~~and Hdgts~~. Western bluebird common in woodland or more open areas. Warbling Vireo often heard in wooded areas. Redwings common around the lakes in Lake pasture. Western Meadow-lark present but not too common, only in v. open situations. Several pairs of Bullock's Orioles seen in woodland areas. Cowbirds seen in open and woodland situations. Linnets fairly common in open and woodland areas. Morning doves ad. Throughout except deepest woods. Calif. Quail commonly seen along roads in brush, and woodland situations. Several Red-tailed Hawks in area. One pair were very disturbed over my presence in South pasture. Sparrow-hawks common. Turkey Vultures v. common, always in view. Killdeer along Person's Creek adj to Hdgts. Great Blue Heron seen flying over woods near lakes on June 6 (A.M.) Red-shafted flickers occasionally seen in woodland areas. Pileated Wdpr in heavy wooded areas, often heard. Downy Wdpr in woods and woodland situations. Nuttall's seen once in woodland but not necessarily uncommon. Sayuli hunting in woodland of Buck Pasture on June 6.

Thirty snap traps set in rocky sclerophyll woods of Water-tank pasture, elev. 900'.

June 8

Eleven P. truei taken in snap traps in Water-tank field.

June 18 ~~One Calif Wdphee~~ One Calif Wdphee collected in east part of Foster Pasture in wooded gully, (no 230), ele. 850'

June 14 On trip into Chapparral of Orchard Pasture Spotted Towhee, one hummingbird (sp?) and Wren-tits seen. The first ~~mentioned~~ ~~at that time~~ appears to be restricted to this area here. Collected one Spotted Towhee ♂ (no. 231) at ele. 2600' ^{ele. 2650'}

June 15 About 150 snap traps set in Orchard and James ^{pastures}. Checked traps. Took one Microtus, numerous Peromyscus, both truei and maniculatus (check on bolgleyi)

June 20 Pair of mallards seen on small lake along entrance road this A.M. W. Longhurst collected several bats from under the canvas surrounding the deer parasite pens in North pasture. They appear to be mostly Myotis californicus with two M. volans. Several of the bats had young with them. (These killed June 21.) ele. 1200'

June 26 Went on bat shooting foray with W. Longhurst at the large pond in Lake Pasture. Bill shot a Violet-green Swallow. No bats were seen until about 45 minutes after sunset, then only a few were seen. Bill got only one myotis (volans?).

July 2 Finally have Alex ready to work. Collected five birds this A.M., a plain titmouse in Upper Horse, ele. 1050', and a Western Pewee, Chipping and Song sparrows, and a bluebird in the E. end of Vassar, ^{and Lake Pasture} ele. 1000' ft. Black phoebe around pond in Lake Pasture. M. Wilson opened a 2' rattlesnake containing 5 Mus (?) that had been killed in the old sheep barn.

July 3. Got a Steller's jay by Headquarters this A.M.

Thaeler, C.S., Jr

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California

Jan 31	Woodland, Yolo Co., Calif.	(coll. by R. Rudi)	
321	<i>Antrozous</i> <i>Peromyscus</i>	♂ T.L. 7 mm. (N) (C) (M.S.) 110-34-14-29-28-334	Captured 2028 1957
Feb. 9	Richardson's Bay, Marin Co., Calif.	(Picked up dead on road)	
342	<i>Calo</i>	♂ Testes 8 mm. wt. 252.2 gms.	
(5-12)	Western Fresno Co. or Eastern San Benito Co., Calif.	(Taken from Carcass hanging on fence along road from Mendota to Mercy Hot Springs, 5.8 mi N, 3.7 mi E Mercy Hot Springs, Fresno Co., Calif)	
skull only	362	<i>Canis latrans</i> ♂ no measurements. Mercy Hot Springs, elev. 420'	
Feb. 16	Panoche Creek, 4 mi N, 4.8 mi E Mendota , Fresno Co., Calif.	no embryos. (N) (C) 139.9 ♀ 385-173-48-19-12 wt. 139.9 gms. 3 embryos, very rudimentary. (N) (C) ♀ 331-181-48-18-13 wt. 137.9 gms.	
363	<i>Dipodomys ingens</i>		
364	" "		
	Panoche Creek .4 mi N, .8 mi E Mendota , Fresno Co., Calif.	B. M 502, elev. 480'	
skull only	365	<i>Dipodomys ingens</i> ♀ coll. by S.F. Cook, Jr. no embryos, lactating	
366	<i>Citellus nelsoni</i>	♀ 242-64-47-12 wt. 194.8 gms.	
	1.4 mi S, 10.3 mi E Mendota, 200'±, Fresno Co., Calif.	T.L. 12 mm.	
367	<i>Dipodomys heermanni</i>	♂ 283-166-40-17-11 (N) (C) wt. 61.3 gms.	
368	<i>Dipodomys nitrotaeoides</i>	T.L. 12 mm. (N) (C) ♂ 231-141-36-14-11 - wt. 44.1 gms.	
369	" "	1 embryo L.H. R.H. (N) (C) ♀ 220-125-34-18-9 wt. 35.5 gms.	
370	" "	no embryos (N) (C) ♀ 230-133-36-14-10 wt. 36.1 gms.	
371	" "	T.L. 10 mm. (N) (C) ♂ 229-135-34-14-9 wt. 37.7 gms.	
372	" "	no embryos (N) (C) ♀ 227-132-35-14-10 wt. 37.3 gms.	
373	" "	T.L. 11 mm. (N) (C) ♂ 231-133-39-15-10 wt. 39.2 gms.	
		Coll. by S.F. Cook, Jr.	
374	<i>Dipodomys heermanni</i>	no embryos (N) (C) ♀ 289-169-40-17-12 wt. 69.4 gms.	
375	" "	no embryos (N) (C) ♀ 267-158-38-16-10 wt. 54.4 gms.	
376	" "	no embryos (N) (C) ♀ 197-98-36-12-10 wt. 31.4 gms.	
377	" <i>nitrotaeoides</i>	T.L. 6 mm. (N) (C) ♂ 232-133-34-15-10 wt. 45.9 gms.	
378	" "	no embryos (N) (C) ♀ 242-142-35-14-9 wt. 38.3 gms.	
379	" "	1 embryo R.H. L.H. (N) (C) ♀ 236-132-34-14-9 wt. 46.3 gms.	
380	" "	T.L. 10 mm. (N) (C) ♂ 241-135-34-13-9 wt. 38.6 gms.	
381	" "	T.L. 11 mm. (N) (C) ♂ 225-126-38-13-9 wt. 39.2 gms.	
382	" "	1 embryo L.H. R.H. (N) (C) ♀ 215-123-37-13-9 wt. 36.3 gms.	
383	" "	T.L. 12 mm. (N) (C) ♂ 226-127-34-14-9 wt. 38.8 gms.	
384	" "	no embryos (N) (C) ♀ 166-89-31-11-7 wt. 16.5 gms.	

Feb 16 cont

385	<i>Peromyscus maniculatus</i>	no embryos ♀ 173-73-19-18	wt. 22.5 gms.
386	"	no embryos ♀ 159-65-20-17	wt. 23.6 gms
387	"	T.L. 10 mm. ♂ 161-66-19-17	wt. 19.7 gms.
388	"	2 embryos L.H. ♀ 159-68-19-19	wt. 26.8 gms.
389	"	T.L. 11 mm. ♂ 155-65-19-17	wt. 19.3 gms.
390	"	T.L. 9 mm. ♂ 147-63-18-17	wt. 18.9 gms.

coll. by C.S. Thaler

391	<i>Peromyscus maniculatus</i>	2 embryos L.H. ♀ 151-63-19-17	wt. 23.3 gms.
392	"	T.L. 10 mm. ♂ 154-64-19-17	wt. 20.5 gms.
393	"	T.L. 8 mm. ♂ 149-65-19-16	wt. 18.8 gms.
394	"	T.L. 8 mm. ♂ 147-66-19-17	wt. 16.2 gms.

0.3 mi. S, 0.5 mi. E Mercey Hot Springs, Fresno Co., Calif. (ele. 1250')

395	<i>Dipodomys</i>	T.L. 11 mm. ♂ 300-129-44-18-12	wt. 88.3 gms.
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396 *Zonotrichia*

Feb. 28 .2 mi. S, .2 mi. E Grizzly Peak, 1700', Contra Costa Co., Calif. coll. by Chris Stank

420 *Sorex*T.L. 6 mm.
♂ 100-34-12-8Apr. 4 *Perognathus*

Apr. 4 Jawbone Canyon, 17.3 mi. N, 3.7 mi. E Mojave, the 2800± ft. Kern Co. Calif.

421 *Perognathus*T.L. 4 mm.
♂ 129-69-18-8-5422 *Peromyscus crinitus*Testes 11 mm.
♂ 168-95-20-18 17.7 gms. |

Apr. 5

423 *Perognathus*T.L. 8 mm.
♂ 187-104-25-12-9

424 "

T.L. 8 mm.
♂ 189-105-24-13-9425 *Dipodomys merriami*Testes 11 mm.
♂ 235-134-37-15-11 41.3 gms |

426 "

T.L. 8 mm.
♂ 245-145-39-15-11 44.0 gms. |
427 *Peromyscus crinitus*3 embryos R.H.
♀ 174-91-19-17 17.0 gms |

428 "

Testes 7 mm.
♂ 173-93-19-19 16.2 gms. |

429 "

No embryos
♀ 171-89-20-18 18.7 gms. |
430 *Peromyscus maniculatus sonoriensis*♀ 171-73-21-18 24.8 gms |

431 "

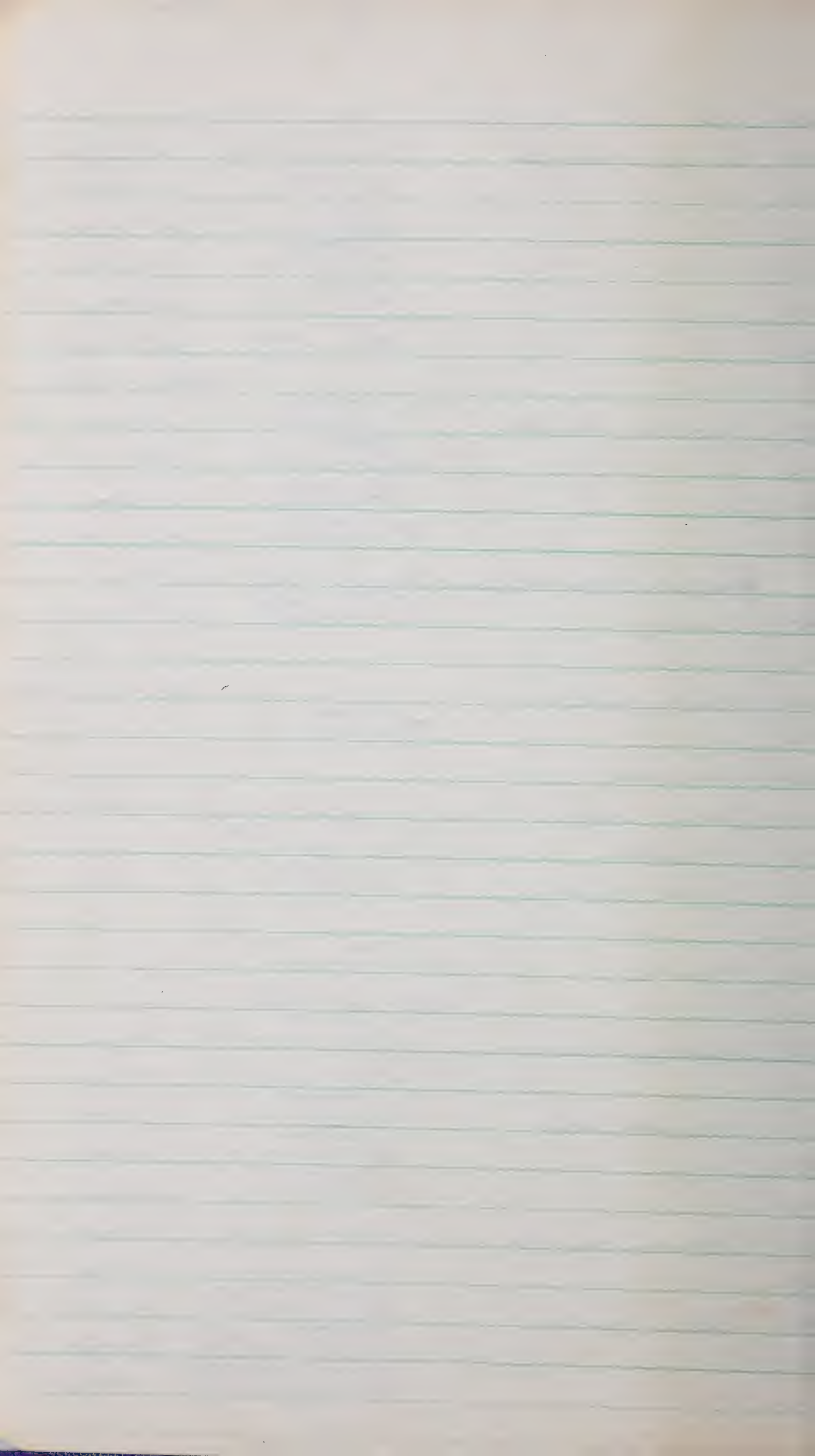
♂ 140-65-20-17 15.2 gms |
432 *Citellus leucurus*Testes L. 16 mm.
♂ 211-55-38-13-4 142.0 gms. |

433 "

5 embryos R.H.
♀ 202-58-37-13-5 110.4 gms. |

434 "

No embryos, 8 acro, lactating
♀ 178-(28)-38-13-4 95.1 gms. |



Apr. 5 10.1 mi. N, 6.7 mi. E Mojave, 2400± ft. Kern Co., Calif.

435 *Dipodomys panamintinus mohavensis* ♂ 311-184-47-17-11^{(N) (C)} wt. 88.7 gms.

Apr. 6

436 *Dipodomys merriami* ♀ 251-147-37-15-10^{2 embryos R. 4 (N) (C)} wt. 53.8 gms. paper)

437 " " ♂ 265-159-40-16-10^{(N) (C)} wt. 51.0 gms. 3, Calif.

438 " " ♂ 253-147-39-16-11^{(N) (C)} wt. 50.0 gms.

Jawbone Canyon, 17.3 mi. N, 3.7 mi. E Mojave, 2800± ft., Kern Co., Calif.

439 *Perognathus longimembris* 116-50-19-7-4^{(N) (C)} wt. 8.5 gms.

440 *Peromyscus crinitus stephensi* ♂ 170-90-18-18^{Testes 10 mm.} wt. 16.6 gms.

441 " " ♀ 174-84-20-19^{11 mm.} wt. 24.2 gms.

442 *Peromyscus maniculatus sonoriensis* ♂ 157-70-20-18^{6 mm.} wt. 19.5 gms.

443 " " ♂ 145-65-20-18 wt. 16.9 gms.

900± ft. Alameda

Apr. 15 1.3 mi. N, 1.9 mi. W Grizzly Peak, Contra Costa Co. Calif.

444 *Thomomys bottae* ♂ 228-67-27-8^{TL 12 mm.} wt. 165.9 gms. (coll. by M. Woods and C. Thaxler)

Apr. 21
~~444~~

445 *Thomomys bottae* ♀ 206-68-25-8^{5 embryos (N) (C)} wt. 99.9 gms. (coll. by M. Woods)

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(previous pages
not on MVZ paper)

June 12 Lombardi Ranch, 3525 ±', 1 1/2 mi WNW Mount Shasta (T. 40N, R. 4W, sec 27), Siskiyou Co., Calif.

446	♂ <i>Thomomys monticola</i> (?) T.L. 16 mm. Epid. +	225-70-28-10-7	wt. 126.6 gms.
447	♂ " " T.L. 15 mm. Epid. +	218-70-26-10-7	wt. 109.5 gms.
448	♂ " " T.L. 4 mm. Epid. - lactating 5 v. recent scars	198-67-26-7-4	wt. 68.4 gms.
449	♀ " " Post. lactating 5 scars	202-68-26-11-7	wt. 96.3 gms.
450	♀ " " no embryos, no scars	201-60-26-10-6	wt. 87.0 gms.
451	♀ " " no embryos, no scars	193-62-27-9-6	wt. 66.1 gms.
452	♀ " " no embryos, no scars	181-60-25-8-5	wt. 56.8 gms.

June 13

453	♀ " " post-lactating, 6 scars. Lactating 4 scars.	216-67-27-10-7	wt. 109.5 gms.
454	♀ " " T.L. 16 mm. epid. +	207-60-28-9-6	wt. 95.2 gms.
455	♂ " " 5 embryos - 19 mm. cr. - rump.	231-65-28-9-6	wt. 114.3 gms.
456	♀ " " no embryos, no scars, post. lact.	208-70-26-10-6	wt. 120.5 gms.
457	♀ " " no embryos, no scars, post. lact.	210-65-26-9-6	wt. 103.3 gms.
458	♀ " " no embryos, no scars, post. lact.	202-67-27-10-6	wt. 92.8 gms.
459	♀ " " no embryos, no scars, post. lact.	196-59-27-10-6	wt. 88.8 gms.

June 14

460	♂ " " T.L. 4 mm. epid. - no embryos, no scars, post. lactating	208-69-26-10-6	wt. 85.3 gms.
461	♀ " " 4 embryos about 5 mm. cr. - rump length.	216-70-28-10-6	wt. 89.1 gms.
462	♀ " " no embryos, no scars, post. lact.	198-63-27-10-7	wt. 85.8 gms.

June 15 Ferraro Ranch, 3600 ± ft., 1/2 mi N Mt. Shasta R.O. T. 40N, R. 4W, sec 29.

Siskiyou Co. Calif.

463	♂ <i>Thomomys monticola monticola</i> T.L. 12 mm. epid. + no embryos, 5 scars, post. lact.	229-87-28-12-9	wt. 101.2 gms.
464	♀ " " no embryos, 4 scars, post. lact.	213-71-28-9-8	wt. 96.8 gms.
465	♀ " " no embryos, no scars	221-73-27-10-8	wt. 95.5 gms.
466	♀ " " no embryos, no scars	205-74-26-10-9	wt. 79.8 gms.
467	♀ " " no embryos, no scars	204-69-26-9-8	wt. 70.7 gms.

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June 16 Ferrero Ranch, 3600 ± ft., 1/2 mi N Mt. Shasta P.O., (T. 40N, R. 4W, sec. 9) Siskiyou Co., Calif.

468	♂ <i>Thomomys monticola monticola</i>	216-73-27-9-7	wt 97.8 gms
469	♂ " " "	218-77-28-11-8	wt 96.6 gms
470	♂ " " "	219-76-26-9-8	wt 93.0 gms
471	♀ " " "	216-73-27-11-9	wt 95.8 gms
472	♀ " " "	202-65-27-9-7	wt 90.4 gms
473	♀ " " "	192-66-27-9-7	wt. 56.4 gms

June 15 Mt. Shasta State Fish Hatchery, 3440 ± ft., Siskiyou Co., Calif. (T. 40N, R. 4W, sec. 17)
no embryos (coll by R. Hill)

474	♀ <i>Citellus beecheyi</i>	439-187-55-31	wt. 534.6 gms (T. 40N, R. 4W sec 8)
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June 17 Spr. Creek Ranch, (Hoyt's), 3600 ± ft., 0.4 mi W Big Spring, Siskiyou Co., Calif.

475	♂ <i>Thomomys monticola monticola</i>	234-78-29-12-8	wt. 140.3 gms.
476	♀ " " "	198-71-27-9-7	wt. 75.2 gms.
477	♀ " " "	181-63-27-8-6	wt. 62.2 gms.

Spr. Creek Ranch (Hoyt's), 3550 ± ft., 0.2 mi W, 0.6 mi S Big Spr., Siskiyou Co. (T. 40N, R. 4W sec 8)

478	♂ <i>Thomomys monticola</i>	190-66-28-8-6	wt. 76.2 gms
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Spr. Cr. Ranch, (Hoyt's) 3600 ± ft., 0.4 mi. W Big Spr. Siskiyou Co., Calif. (T. 40N, R. 4W sec 8)

479	♂ <i>Thomomys monticola monticola</i>	229-79-28-10-8	wt. 133.0 gms
480	♂ " " "	220-76-26-11-8	wt. 106.3 gms
481	♂ " " "	220-79-25-10-7	wt. 97.4 gms
482	♂ " " "	215-77-27-10-7	wt 83.5 gms
483	♂ " " "	215-74-27-10-2	wt. 71.9 gms
484	♂ " " "	186-72-25-9-6	wt. 58.3 gms
485	♀ " " "	191-67-27-10-8	wt. 89.5 gms.

Spr. Creek Ranch (Hoyt's), 3560 ± ft., 0.2 mi W, 0.3 mi S Big Spr., Siskiyou Co., Calif. (T. 40N, R. 4W, sec 8)
no embryos or scars, vagina 28 mm. long. post. lact.

486	♀ <i>Thomomys monticola</i>	205-76-27-9-5	wt 91.5 gms
487	♀ " " "	208-70-27-9-5	wt 79.4 gms
488	♀ " " "	188-67-26-8-4	wt 69.3 gms
489	♀ " " "	172-56-25-8-4	wt 55.1 gms

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(T. 40N, R. 4W
Sec. 8)

June 18	Spr. Cr. Ranch (Hoyt's), 3560± ft., 0.2 mi. W, 0.3 mi S Big Spr., Siskiyou Co., Calif.		
490	♂ <i>Thomomys monticola</i> T.L. 4 mm. epid + Testes < 5 mm.	234-79-29-10-7	wt. 128.9 gms
491	♂ " "	200-74-27-8-5	wt. 79.1 gms
492	♂ " "	193-66-25-7-4	wt. 63.9 gms
493	♂ " "	207-62-27-8-5	wt. 85.5 gms.
494	♂ " "	180-57-25-8-5	wt. 58.9 gms.
495	♀ " "	213-69-28-10-7	wt. 103.4 gms.
496	♀ " "	192-65-27-8-5	wt. 62.1 gms.
June 19	no embryos, no scars, post. lact. vagina 30 mm.		
497	♀ <i>Thomomys monticola</i> no embryos, no scars, vagina 14 mm.	201-72-27-10-5	wt. 84.9 gms
498	♀ " "	202-73-28-9-6	wt. 89.0 gms
499	♀ " "	190-70-26-9-5	wt. 64.1 gms
500	♀ " "	189-64-25-9-5	wt. 58.9 gms.
501	<i>Myotis volans</i> Mt. Shasta State Fish Hatchery, 3420± ft., Siskiyou Co., Calif. (T. 40N, R. 4W sec 17) embryos body length 30 mm. wt. 1.4 gms.	91-42-8-15-11-259 (W) (C)	wt. 10.8 gms. (T. 90N R. 4W sec 17)
June 20	Lombardi Ranch, 3525± ft., 1½ mi WNW Mt. Shasta P.O. Siskiyou Co., Calif.		
502	♂ <i>Thomomys monticola</i> "pinetorum"		wt. 73.0 gms
503	♂ " "		wt. 67.9 gms
504	♀ " "		wt. 85.7 gms
505	♀ " "		wt. 84.1 gms
506	♀ " "		wt. 80.2 gms
507	♀ " "		wt. 41.8 gms.
508	♀ <i>Thomomys monticola monticola</i> T.L. 21 mm epid + 5 scars, vagina 8 mm. lact.	211-24-26-9-8 (W) (C)	wt. 80.7 gms.
509	♂ " "	210-71-26-10-8	wt. 100.6 gms
510	♀ " "	200-65-27-10-8	wt. 98.7 gms
511	♀ " "	208-67-27-8-6	wt. 90.0 gms.
512	♀ " "	214-76-26-10-7	wt. 85.5 gms

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June 20 (cont) Wagon Camp, 5800± ft, 5.8 mi S, 1.0 mi W Mt Shasta, Siskiyou Co., Calif (T. 40N, R. 3W sec. 8)
no embryos, no scars, vagina 4 mm.

513 ♀ *Thomomys monticola monticola* 198-68-26-5-6 wt. 69.7 gms.

June 21

514 ♂ *Thomomys monticola monticola* 220-77-27-10-8 wt. 36.6 gms.
T.L. 21 mm. epid +
6 embryos, 4 mm. cr. rump length.

515 ♀ *Eutamias amoenus* 202-84-32-19-13 wt. 51.7 gms.
4 scars, lact.

516 ♀ *Microtus longicaudus* 191-69-19-16-10 wt. 52.1 gms.
T.L. 10 mm. epid +

517 ♂ " " 198-73-20-16-10 wt. 51.6 gms.
T.L. 8 mm. epid +

518 ♂ " " 183-65-20-16-11 wt. 44.0 gms.

June 22 Crystal Lake State Fish Hatchery, 3000± ft, 1 mi. N Cassel, Shasta Co., Calif.
T.L. 6 mm. epid +.

519 ♂ *Thomomys bottae* 243-75-30-8-4 wt. 203.2 gms.
no embryos, no scars, part. lact.

520 ♀ " " 217-69-27-7-3 wt. 127.2 gms.
Testes 4 mm. epid -

521 ♂ " " 198-62-27-7-4 wt. 87.7 gms.

June 23

522 ♀ " " 211-68-27-7-5 wt. 129.0 gms.
no embryos, no scars, part. lact.

523 ♀ " " 189-59-26-7-4 wt. 95.4 gms.
no embryos, no scars, (part. lact.?)

524 ♀ *Thomomys monticola* 198-68-27-9-8 wt. 85.2 gms.
3750± ft.
8.5 mi E, 2.9 mi N McCloud, Siskiyou Co., Calif. (T. 40N, R. 1W, sec 21)
3 scars, part. lact., vagina 7 mm. (W)(G)

June 26 Wagon Camp, 5800± ft, 5.8 mi S, 1.0 mi W Mt. Shasta Siskiyou Co., Calif. (T. 40N, R. 3W sec. 8)
525 *Sceloporus graciosus* caught June 20, killed June 26
prep. D. Wilhoft.

July

July 15 5.8 mi W Vallejo Stage Station
Mason Valley, 2100± ft., San Diego Co., Calif.
526 ♂ *Pterognathus* 192-106-22-9-5 wt. 18.6 gms.
Testes 3 mm. epid -
527 ♂ " 203-113-25-10-6 wt. 22.5 gms.
Testes 4 mm. epid -
528 ♂ *Lipodomyx merriami* 255-151-37-14-10 wt. 37.3 gms.
Testes 11 mm epid -
529 ♀ " 231-139-36-14-9 wt. 39.5 gms.
part. lact. 3 scars.
530 ♂ " 241-139-36-14-11 wt. 34.4 gms.
Testes 8 mm epid -
531 ♀ " 238-138-37-13-9 wt. 32.2 gms.
Testes 4 epid -

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1800± ft.

July 15 3.2 mi. W Vallecito Stage Station, San Diego Co., Calif.
post. lact. 3 scars.532 ♀ *Neotoma* 321-164-32-31 wt. 120.5 gms.

1500± ft.

killed July 15 Vallecito Stage Station, San Diego Co., Calif.

coll. by A. Beck 1 scar. Lact.

533 ♀ *Antrozous pallidus* 123-51-9-32-27-364 wt. 13.0 gms. U.S.

coll. by A. Beck Testes 5 mm. epid.

534 ♂ " " 116-50-10-31-26-371 wt. 12.4 gms. W.S.

1400± ft.

died July 15 Agua Caliente Hot Sp., San Diego Co., Calif.

535 ♀ *Pipistrellus hesperus* 71-29-5-10-10-199 wt. 3.2 gms.

536 ♀ Last. " " 74-31-5-12-10-197 wt. 3.0 gms.

537 ♀ Last. " " 78-34-6-13-11-216 wt. 3.7 gms.

caught July 14

killed July 15

538 ♂ *Eptesicus fuscus* 112-47-8-16-11-300 wt. 10.3 gms.539 *Bufo* ~~sp.~~ *punctatus*

1800± ft.

July 16 3.2 mi W Vallecito Stage Station, San Diego Co., Calif.
post. lact 3 scars.540 ♀ *Neotoma* 322-159-31-28-22 wt. 127.4 gms. (N) (C)

1350± ft.

1.4 mi. E 3 mi. S Vallecito Stage Station, San Diego Co., Calif.
no embryos, no scars.541 ♀ *Perognathus* 187-107-23-9-5 wt. 15.9 gms. (N) (C)

Testes 4 mm. epid.

542 ♂ *Dipodomys merriami* 238-148-36-15-11 wt. 32.9 gms.

3 embryos, 14 mm.

543 ♀ *Peromyscus eremicus* 187-93-20-20-17 wt. 20.5 gms.

July 16 Turco Mines, 700± ft., Imperial Co., Calif.

7 mm. Testes, epid.

544 ♂ *Perognathus spinatus* 205-114-24-10-6 wt. 23.5 gms.

Testes 4 mm. epid.

545 ♂ " " 208-125-23-9-6 wt. 16.9 gms.

no embryos, no scars.

546 ♀ " " 189-113-22-9-5 wt. 13.4 gms.

no embryos, no scars.

547 ♀ " " 198-115-23-10-6 wt. 17.0 gms.

Testes 4 mm. epid.

548 ♂ " " 192-110-26-9-6 wt. 19.1 gms.

Testes 3 mm. epid.

549 ♂ " " 205-110-25-9-6 wt. 19.3 gms.

no emb.

550 ♀ *Peromyscus crinitus* 164-93-20-18-15 wt. 12.8 gms.

no embryos

551 ♀ " " 180-98-19-19-16 wt. 12.5 gms.

no embryos, no scars.

552 ♀ " " 171-97-18-20-17 wt. 10.3 gms.

July 16 (cont.) Temco Mines, 700± ft., Imperial Co., Calif

553 ♂ *Neotoma* Testes 6 mm. epid- 290-136-30-31-28 wt. 90.4 gms.

July 17

554 ♂ *Crotalus mitchelli* 24 1/2" long. coll. by. A Beck and C. Thaler

555 *Cnemidophorus tigris* Caught in mouse trap.

(Nos 556 thru 668 put up from frozen material upon return to M.V.Z.)

July 18 Vallecito Stage Station, 1500± ft., San Diego Co., Calif.

556 ♂ *Corynorhinus* Testes 4 mm. epid- 98-50-10-36-31-281^{W.S.} wt. 5.7 gms.

July 18

557 ♀ *Antrozous* near, last. 110-41-12-30-24-323^{W.S.} wt. 13.6 gms.
Testes 4 mm. epid-

558 ♂ *Eptesicus* 114-47-9-18-11-306^{W.S.} wt. 11.5 gms.
Testes 7 mm. epid-

559 ♂ *Corynorhinus* 100-48-10-36-30-281^{W.S.} wt. 6.4 gms.
no emb. no scars.

560 ♀ " " 94-45-9-36-31-278^{W.S.} wt. 4.7 gms.
Testes v. small

561 ♂ *Myotis californicus* 84-42-7-13-11-223^{W.S.} wt. 3.7 gms.
Testes 3 mm.

562 ♂ " " 80-40-7-15-12-213^{W.S.} wt. 3.3 gms.
Testes v. small

563 ♂ " " 80-40-6-12-10-220^{W.S.} wt. 2.7 gms.
Testes 2 mm.

564 ♂ " " 83-40-6-14-11-217 wt. 3.4 gms.
Testes v. small

565 ♂ " " 80-39-6-14-11-209 wt. 3.2 gms.
no emb.

566 ♀ " " 82-39-5-14-11-220 wt. 3.2 gms.

July 16

567 ♂ *Perocephalus* *formosus* Testes 4 mm. epid- 198-114-22-11-7^{(N) (C)} wt. 14.7 gms.

568 ♂ " " Testes 3 mm. epid- 193-110-23-11-7 wt. 14.7 gms.

569 ♀ " " no emb. no scars. 189-109-23-11-7 wt. 13.6 gms.

570 ♂ " " Testes 4 mm. epid- 186-106-23-11-7 wt. 14.9 gms.

571 ♂ " " Testes 2 mm. epid- 180-104-22-10-7 wt. 13.7 gms.

572 ♀ " " 3 large, 3 small scars, post. last. 174-100-20-9-4 wt. 10.8 gms.

573 ♀ *Dipodomys merriami* 3 scars. 249-143-36-15-11 wt. 40.3 gms.

574 ♀ " " 236-137-36-14-10 wt. 35.6 gms.

July 16 Vallecito Stage Station, 1500± ft., San Diego Co., Calif.

575	♂ <i>Reithrodontomys</i>	149-80-17-16-11	wt. 8.2 gms.
	Testis 4 mm. epid.-		
576	♂ " "	138-72-17-15-11	wt. 6.5 gms.
	no emb.		
577	♀ <i>Microtus californicus</i>	174-49-12-18-10	wt. 56.8 gms.

Mason Valley, 5.3 mi W Vallecito Stage Station, 2100± ft., San Diego Co., Calif.

578	♂ <i>Perognathus fallax</i>	168-94-24-8-5	wt. 12.2 gms.
	Testis 11 mm. epid.-		
579	♂ <i>Dipodomys merriami</i>	254-150-39-15-10	wt. 45.2 gms.
	Testis 8 mm. epid.-		
580	♂ " "	240-147-39-15-10 (N)(C)	wt. 34.1 gms.

July 15 Agua Caliente Hot Springs, 1400± ft., San Diego Co., Calif.

581	♂ <i>Carynorhina</i>	98-47-9-35-30-273	wt. 6.2 gms.
	no dub. no scars, post. lact.		
582	♀ " "	92-46-9-37-38-288	wt. 6.6 gms.
	Testis 3 mm.		
583	♂ <i>Myotis californicus</i>	84-40-6-14-12-226	wt. 3.7 gms.
	Testis 11 small		
584	♂ <i>Pipistrellus hesperus</i>	69-30-5-13-9-193 (M)(C) W.S.	wt. 3.0 gms.
	1 scar, post. lact.		
585	♀ " "	77-36-5-12-9-201	wt. 3.4 gms.
	1 scar. post. lact.		
586	♀ " "	76-32-5-13-9-208	wt. 3.5 gms.
	Testis 3 mm.		
587	♂ " "	73-29-5-14-9-198	wt. 3.8 gms.
	no emb. no scars.		
588	♀ " "	74-31-5-13-9-208	wt. 3.1 gms.
	Testis 3 mm.		
589	♂ " "	73-33-5-12-9-209	wt. 3.2 gms.
	Testis 1 mm.		
590	♂ " "	69-29-5-11-8-195	wt. 2.6 gms.
	Testis 11 small		
591	♂ " "	65-27-5-11-7-189	wt. 1.9 gms.
	no emb. no scars, post. lact.		
592	♀ <i>Myotis californicus</i>	83-42-6-12-8-220	wt. 3.5 gms.

July 17 Tumco Mines, 700± ft., Imperial Co., Calif.

	no emb. post. lact.		
593	♀ <i>Macrotus californicus</i>	101-36-12-36-27-321	wt. 12.7 gms.
	no emb. post. lact.		
594	♀ " "	94-35-14-34-26-329	wt. 11.9 gms.
	no emb. no scars		
595	♀ " "	88-31-14-27-21-299	wt. 9.7 gms.
	Testis 5 mm. epid.-		
596	♂ <i>Antrozous pallidus</i>	104-42-9-30-23-329	wt. 11.7 gms.
	post. lact., no emb. no scars.		
597	♀ <i>Eptesicus fuscus</i>	116-49-9-16-11-319	wt. 13.9 gms.
	post. lact. 1 scar		
598	♀ " "	125-52-9-18-13-337	wt. 14.2 gms.

Taken July 16
Killed this
date.
Skin only

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Catalogue

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July 17 Tumas Mines, 700± ft., Imperial Co., Calif. (cont.)

599	♀	<i>Cptesicus fuscus</i> . no emb. no scars, post. last. no emb. no scars.	114-46-9-16-12-317	wt. 12.6 gms.
600	♀	" " no emb. no scars.	110-46-9-16-12-298	wt. 11.5 gms.
601	+	" " no emb. no scars.	111-45-10-17-13-315	wt. 10.4 gms.
602	♀	<i>Pipistrellus</i> no emb. no scars.	70-30-5-11-9-200	wt. 3.2 gms.
603	♀	" testes v. small.	68-29-5-11-9-205	wt. 1.7 gms.
604	♂	" no emb. no scars, post. last.	64-26-4-10-8-179	wt. 1.6 gms.
605	♀	<i>Eptesicus</i> no emb. 2(?) scars, post. last.	112-45-9-17-12-304	wt. 11.4 gms.
606	♀	" about 11 scars	116-50-10-16-12-313	wt. 10.5 gms.
607	♀	<i>Perognathus</i> Testes 3 mm. epid.-	192-112-22-9-5	wt. 15.3 gms.
608	♂	" Testes 3 mm. epid.-	205-116-25-10-7	wt. 19.5 gms.
609	♂	" Testes 3 mm. epid.-	201-115-22-9-5	wt. 15.4 gms.
610	♂	" Testes 3 mm. epid.-	180-104-24-9-5	wt. 14.0 gms.
611	♂	" no emb. no scars.	174-98-22-9-5	wt. 12.8 gms.
612	♀	" no emb. no scars.	184-107-23-8-5	wt. 12.9 gms.
613	♀	" 3 large, 2 small scars. no emb.	172-104-22-8-5	wt. 11.2 gms.
614	♀	<i>Dipodomys merriami</i> no emb. no scars.	249-147-37-16-11	wt. 36.9 gms.
615	♀	<i>Peromyscus crinitus</i> no emb. no scars.	179-100-18-20-17	wt. 12.9 gms.
616	♀	" " no emb. no scars.	178-104-20-19-15	wt. 11.6 gms.
617	♀	" " Testes 5 mm. epid.-	170-102-19-18-15	wt. 11.2 gms.
618	♂	<i>Neotoma</i>	292-138-29-32-28	wt. 98.2 gms.

July 18

619	♂	<i>Perognathus</i> Testes 6 mm. epid.-	216-122-26-10-5	wt. 24.4 gms.
620	♀	<i>Peromyscus crinitus</i> Testes 1 mm. epid.-	180-102-19-20-16	wt. 12.6 gms.
621	♂	" " Testes 7 mm. epid.- no emb. no scars.	170-94-19-20-17	wt. 13.6 gms.
622	♀	<i>Neotoma lepida</i>	238-113-29-26-20	wt. 50.3 gms.

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1040±ft. -

July 18 Mine, 5.8 mi. S, 0.3 mi. E Vidal, Riverside Co., Calif.

623	♂	Testes 3 mm.	<i>Microtus californicus</i>	102-39-12-36-30-328	wt. 13.4 gms.
624	♂	Testes 3 mm.	"	93-33-12-35-28-338	wt. 13.3 gms.
625	♂	Testes 3 mm.	"	95-31-12-33-27-329	wt. 12.5 gms.
626	♀	post. lact. no emb, no scars.	"	101-35-15-35-26-329	wt. 14.1 gms.
627	♀	no emb, no scars post. lact.	"	100-35-14-34-26-328	wt. 13.1 gms.
628	♀	no emb. no scars, post. lact.	"	104-42-13-34-26-	wt. 13.5 gms.
629	♀	no emb. no scars, post. lact.	"	101-33-12-36-28-338	wt. 12.5 gms.
630	♂	Testes 1 mm. epid.	"	96-35-11-33-26-328	wt. 11.8 gms.
631	♂	Testes 1 mm. epid.	"	97-35-11-33-25-318	wt. 11.7 gms.
632	♀	no emb. no scars.	"	86-32-12-29-22-288	wt. 8.1 gms.
633	♂	Testes 1 mm.	"	96-34-11-32-26-295	wt. 10.7 gms.
634	♀	no emb. no scars	"	96-36-11-33-25-325	wt. 11.3 gms.
635	♀	no emb. no scars	"	90-34-11-33-26-324	wt. 10.8 gms.
636	♂	Testes 2 mm. epid.	"	95-40-11-34-26-337	wt. 11.9 gms.
637	♀	no emb. no scars.	"	87-33-11-29-23-304	wt. 9.8 gms.
638	♀	no emb. no scars	"	95-38-11-33-25-327	wt. 11.6 gms.
639	♂	Testes 1 mm.	"	90-32-12-33-25-314	wt. 11.0 gms.
640	♂	Testes 1 mm.	"	87-32-11-28-23-296	wt. 9.6 gms.
641	♀	no emb. no scars.	"	96-32-11-33-25--	wt. 11.3 gms.
642	♀	no emb. no scars.	"	95-33-12-33-27-324	wt. 11.2 gms.
643	♀	no emb. no scars.	"	87-32-12-29-23-300 ^{W.S.}	wt. 9.2 gms.

Mountaineer (New Era) Mine, 750±ft., 5.5 mi. S, 0.6 mi. E Vidal, Riverside Co., Calif.

644	♀	1 scar, post. lact.	<i>Eptesicus fuscus</i>	113-46-9-17-12-328	wt. 11.4 gms.
645	♀	no emb. no scars.	<i>Myotis velifer</i>	96-38-8-16-12-278	wt. 6.5 gms.
646	♂	Testes 5 mm. epid.	"	99-41-9-16-13-284	wt. 7.1 gms.
647	♂	Testes 5 mm. epid.	"	98-42-8-17-12-280	wt. 6.3 gms.
648	♂	Testes 5 mm. epid.	"	93-39-8-16-11-278	wt. 6.9 gms.

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July 18	Mountaineer (New Era) Mine, 750± ft, 5.5 mi. S, 0.6 mi. E Vidal, Riverside Co. Calif. (cont)		
649	♂ <i>Myotis velifer</i> Testes 6 mm. epid. -	99-42-8-15-11-287	wt. 6.6 gms.
650	♂ " " Testes 2 mm. epid. -	92-37-9-15-11-274	wt. 5.7 gms
651	♂ " " Testes 5 mm. epid. -	91-40-8-15-12-272	wt. 6.3 gms.
652	♂ " " Testes 5 mm. epid. -	95-40-8-16-12-278	wt. 5.7 gms.
653	♂ " " Testes 6 mm. epid. -	99-43-9-14-12-278	wt. 8.0 gms.
654	♂ " " Testes 5 mm. epid. -	100-44-9-17-14-284	wt. 7.4 gms.
655	♂ " " Testes 6 mm. epid. -	97-41-9-16-12-285	wt. 6.9 gms.
656	♂ " " Testes 5 mm. epid. -	95-40-9-17-14-281	wt. 6.2 gms.
657	♂ " " Testes 5 mm. epid. -	92-37-8-16-12-273	wt. 5.9 gms
658	♂ " " Testes 1 mm. epid. -	98-43-8-15-11-284	wt. 5.4 gms.
659	♂ " " Testes 6 mm. epid. -	98-41-9-16-12-282	wt. 7.7 gms
660	♂ " " Testes 6 mm. epid. -	95-40-9-16-12-274	wt. 6.4 gms
661	♂ " " Testes 4 mm. epid. -	94-41-9-16-12-275	wt. 6.2 gms
662	♂ " " Testes 5 mm. epid. -	94-40-8-15-10-276	wt. 5.7 gms.
663	♂ " " Testes 6 mm. epid. -	95-40-9-15-11-286	wt. 7.5 gms.
664	♂ " " Testes 6 mm. epid. -	99-41-9-15-11-295	wt. 7.0 gms.
665	♂ " " Testes 6 mm. epid. -	101-41-9-16-11-288	wt. 6.9 gms.
666	♂ " " Testes 5 mm. epid. -	96-43-9-15-12-277	wt. 6.8 gms
667	♂ " " Testes 5 mm. epid. -	97-41-8-15-11-278	wt. 6.7 gms.
668	♂ " " Testes 8 mm. epid. -	98-41-8-16-12-295	wt. 6.4 gms.

Aug 16.	1.3 mi. N Oakland Airport (saltmarsh), Alameda Co., Calif. coll. by H.F. Fidler		
669	♂ <i>Microtus californicus</i> T. 6.7 mm.	178-55-21-15	wt. 50.3 gms.
	0.4 mi. E Oakland Airport, Melrose Marsh, Alameda Co. Calif. coll. by H.F. Fidler		
670	♀ <i>Microtus californicus</i> 2 embryos.	165-46-20-17	wt. 46.2 gms.

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(saltmarsh)

Sept. 17 1.0 mi. N, 2.0 mi. E Martinez, Contra Costa Co., Calif.

3 R.H., 3 L.H., 8 mm. Cr. - Rump Length.

671 ♀ *Peromyscus ornatus*

107-39-11-8

wt. 6.6 gms.

672 ♂ Testis 1 mm.

tail broken off

98-35-11-7

wt. 4.6 gms

673 ♂ Testis 1 mm.

107-36-11-8

wt. 4.5 gms.

674 ♂ Testis 1 mm.

105-38-11-8

wt. 4.2 gms.

675 ♂ Testis 1 mm.

99-36-11-8

wt. 3.8 gms.

676 ♀ no emb.

102-38-12-8

wt. 3.6 gms

677 ♂ Testis 1 mm.

97-36-11-8

wt. 3.6 gms

678 ♂ Testis 1 mm.

98-37-11-8

wt. 3.5 gms.

679 ♂ Testis 1 mm.

93-36-11-7

wt. 2.9 gms.

Sept. 18

680 ♀ *Peromyscus ornatus*

98-36-11-8

wt 4.3 gms

681 ♀ no emb.

103-37-11-7

wt. 4.2 gms

682 ♀ *Microtus californicus*

197-56-22-17

wt. 67.2 gms

683 ♀ 3 emb. R.H., 3 emb. L.H., 7 mm. L-R.

187-56-22-16

wt. 51.5 gms

684 ♀ 2 scars, no emb.

172-45-21-15

wt. 49.0 gms.

685 ♀ no emb. 2 scars

174-54-21-17

wt. 39.7 gms

686 ♂ *Reithrodontomys*

199-71-17-14

wt. 8.8 gms.

687 ♂ Testis 6 mm. epid.-

135-67-17-15

wt. 8.4 gms.

688 ♂ Testis 4 mm. epid.-

133-69-17-14

wt. 7.5 gms.

689 ♂ Testis 5 mm. epid.-

126-63-16-13

wt. 7.4 gms.

690 ♀ 5 emb. 3 mm.

153-82-17-14

wt. 12.0 gms.

Sept. 19

691 ♀ 2(?) embryos about 3 mm. C-R.

98-37-11-7

wt. 3.9 gms.

692 ♀ no emb.

88-34-11-8

wt 3.7 gms.

693 ♂ *Reithrodontomys*

141-74-17-14

wt. 9.0 gms.

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Sept. 20

1.0 mi. N, 2.0 mi. E Martinez, saltmarsh, Contra Costa Co., Calif.

694	♂ ^{testis 1 mm.} Sorex	105-38-12-8	wt. 4.3 gms.
695	♂ ^{testis 1 mm.} "	104-35-11-8	wt. 3.2 gms.
696	♀ ^{no emb.} "	104-38-11-7	wt. 3.7 gms.
697	♂ ^{testis 7 mm. epid.} Reithrodontomys	140-70-15-14	wt. 9.3 gms.
698	♂ ^{testis 6 mm. epid.} "	128-65-15-14	wt. 7.1 gms.
699	♂ ^{testis 5 mm. epid.} Microtus	150-47-21-14	wt. 26.8 gms.

Sept. 21

700	♂ ^{testis 1 mm.} Sorex	109-35-12-8	wt. 9.9 gms.
701	♀ ^{no emb.} "	102-40-11-8	wt. 4.3 gms.
702	♀ ^{no emb.} "	99-35-11-8	wt. 4.2 gms.
703	♂ ^{testis 1 mm.} "	105-39-11-7	wt. 3.6 gms.
704	♂ ^{testis 8 mm. epid.} Reithrodontomys	144-76-17-14	wt. 9.3 gms.
705	♀ ^{no emb. no scars.} Microtus	175-52-21-17	wt. 54.3 gms.
706	♀ ^{no emb. 4 scars.} "	192-58-23-17	wt. 44.7 gms.

Sept. 22

707	♀ ^{3 emb. R.H., 24 mm C.R. length.} Microtus	174-52-21-14	wt. 56.9 gms.
708	♀ ^{no emb. no scars.} "	124- 36-19 -12	wt. 16.7 gms.

Sept. 23

709	♂ ^{testis 2 mm.} Sorex	105-40-12-7	wt. 5.3 gms.
710	♀ ^{no emb.} "	96-36-11-8	wt. 4.4 gms.
711	♀ [?] "	104-40-12-8	wt. 4.7 gms.
712	♂ ^{testis 1 mm.} "	95-36-11-9	wt. 4.3 gms.
713	♀ ^{4 emb.} "	102-38-11-8	wt. 5.2 gms.
714	♀ ^{no emb.} "	106-40-12-8	wt. 4.8 gms.
715	♂ ^{testis 2 mm.} Reithrodontomys	144-74-16-14	wt. 8.9 gms.
716	♂ ^{testis 6 mm.} "	142-76-16-13	wt. 8.5 gms.
717	♂ ^{testis 6 mm.} "	127-63-16-12	wt. 7.0 gms.

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(cont.) Sept. 23	1.0 mi. N, 2.0 mi. E Martiney, saltmarsh, Contra Costa Co., Calif.		
718	♂ ^{Testes 7 mm.} Microtus	196-56-22-17	wt. 65.5 gms.
718	♀ ^{no emb. no scars.}	159-48-21-15	wt. 37.8 gms.
Oct. 12			
720	♂ ^{no emb. no scars.} Microtus	189-61-22-16	coll by G. Fessler wt. 48.3 gms.
Nov. 15			
721	♀ ^{no scars, no emb.} Microtus	170-49-21-16	coll by G. Fessler wt. 52.1 gms.
722	♀ ^{3 emb. 2 R. 1 L. 30 mm.}	151-45-21-16	coll by G. Fessler wt. 29.6 gms.
Nov. 8	San Pablo Creek (saltmarsh), Richmond, Contra Costa Co., Calif.		(Coll by G. Fessler)
723	♂ ^{T.L. 5 mm.} Microtus	182-53-21-16	wt. 43.7 gms.
724	♂ ^{T.L. 3 mm.}	169-50-22-17	wt. 41.5 gms.
725	♀ ^{no emb., no scars.}	155-47-21-17	wt. 29.6 gms.
Nov. 9.			
726	♂ ^{T.L. 4 mm.} Microtus	171-53-21-17	wt. 41.8 gms.
727	♂ ^{T.L. 3 mm.}	166-54-22-17	wt. 40.2 gms.
728	♂ ^{T.L. 4 mm.}	175-59-21-16	wt. 37.5 gms.
729	♀ ^{no emb., no scars}	164-47-20-17	wt. 42.2 gms.
Dec. 22			
730	♂ ^{T.L. 3 mm.} Microtus	185-51-22-18	wt. 66.7 gms.
731	♂ ^{T.L. 6 mm.}	157-45-21-16	wt. 42.4 gms.
732	♀ ^{no emb. no scars}	165-43-21-17	wt. 50.4 gms.
733	♀ ^{3 emb. 7 mm.}	167-49-20-16	wt. 48.8 gms.
734	♀ ^{3 emb. 6 mm.}	163-45-20-16	wt. 44.5 gms.
735	♀ ^{no emb.}	137-35-20-16	wt. 29.0 gms.
Dec. 23			
736	♂ ^{forex}	103-35-11-7	wt. 4.1 gms.
737	♂ ^{T.L. 6 mm.} Microtus	175-51-21-17	wt. 51.8 gms.
738	♂ ^{T.L. 6 mm.}	177-54-21-15	wt. 48.4 gms.

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1958

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Dec. 23 San Pablo Creek (Saltmarsh), Richmond, Contra Costa Co., Calif

739	♂ T.L. 5mm	Microtus	168-50-21-15	wt. 43.6
740	♂ T.L. 4mm	"	163-50-20-18	wt. 43.3
741	♂ T.L. 5mm	"	168-51-21-16	wt. 41.6
742	♂ T.L. 4mm	"	175-53-21-17	wt. 41.3
743	♂ T.L. 6mm	"	171-55-22-16	wt. 38.6
744	♂ T.L. 4mm	"	161-48-21-15	wt. 38.5
745	♂ T.L. 5mm	"	161-46-21-16	wt. 38.9
746	♂ T.L. 3mm	"	162-52-22-16	wt. 32.7
747	♀ 6(?) scars	"	184-55-21-17	wt. 60.3
748	♀ 3 emb. 6mm	"	170-48-20-17	wt. 50.8
749	♀ no scars.	"	169-50-21-17	wt. 48.5
750	♀ 3 scars	"	164-47-21-16	wt. 43.5
751	♀ no scars	"	164-49-21-17	wt. 42.2
752	♀ no scars	"	169-50-20-17	wt. 41.5
753	♀ no scars	"	155-41-19-15	wt. 38.4
754	♀ no scars	"	151-45-21-16	wt. 35.2
755	♀ no scars	"	148-42-19-16	wt. 33.3
756	♀ no scars	"	145-40-19-15	wt. 27.9

Dec. 24

757	♂ T.L. 4mm	Sorex	108-41-13-9	wt. 7.1
758	♀ no scars	"	114-40-13-8	wt. 7.0
759	♂ T.L. 2mm	"	105-41-12-9	wt. 6.6
760	♂ T.L. 2mm	"	100-37-12-8	wt. 5.6
761	♂ T.L. 3mm	Reithrodontomys megalotis	144-72-18-14	wt. 9.3
762	♂ T.L. 4mm	"	143-74-17-14	wt. 8.2
763	♂ T.L. 3mm	"	134-69-17-14	wt. 8.1
764	♂ T.L. 2mm	"	124-62-17-13	wt. 6.0

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Dec. 24 San Pablo Creek (saltmarsh), Richmond, Contra Costa, Calif.

765	♂	T.L. 3 mm.	<i>Reithrodontomys megalotis</i>	118-56-15-13	wt. 5.9
766	♀	no emb. no scars.	"	150-77-16-13	wt. 10.4
767	♀	no emb. 3 scars.	"	143-73-17-13	wt. 8.8
768	♀	no emb. no scars.	"	141-75-17-13	wt. 8.5
769	♂	T.L. 4 mm.	<i>Reithrodontomys raviventris</i>	156-80-17-15	wt. 12.8
770	♂	T.L. 2 mm.	"	154-79-18-15	wt. 11.3
771	♂	T.L. 1 mm.	"	140-73-17-16	wt. 9.2
772	♂	T.L. 3 mm.	"	129-66-17-14	wt. 8.8
773	♀	no emb. no scars.	"	157-80-18-15	wt. 13.0
774	♀	no emb. no scars.	"	158-82-17-16	wt. 12.8
775	♀	no emb. no scars.	"	139-70-16-14	wt. 9.3
776	♀	no emb. no scars.	"	140-72-16-15	wt. 8.6
777	♀	no emb. no scars.	"	139-72-16-15	wt. 8.3
778	♀	no emb. no scars.	"	131-65-16-13	wt. 7.7
779	♀	no emb. no scars.	"	138-73-17-13	wt. 7.2
780	♂	T.L. 7 mm.	<i>Microtus californicus</i>	191-60-21-17	wt. 54.9
781	♂	T.L. 6 mm.	"	187-56-22-16	wt. 53.5
782	♂	T.L. 7 mm.	"	180-55-21-15	wt. 51.2
783	♂	T.L. 6 mm.	"	175-52-21-16	wt. 49.3
784	♂	T.L. 6 mm.	"	175-54-21-17	wt. 48.5
785	♂	T.L. 6 mm.	"	174-50-21-17	wt. 46.8
786	♂	T.L. 6 mm.	"	124-3-22-14	wt. 45.8
787	♂	T.L. 7 mm.	"	170-50-21-16	wt. 45.7
788	♂	T.L. 8 mm.	"	177-52-21-17	wt. 45.5
789	♂	T.L. 4 mm.	"	170-48-21-16	wt. 45.2
790	♂	T.L. 4 mm.	"	175-53-22-15	wt. 42.9
791	♂	T.L. 5 mm.	"	160-39-21-16	wt. 42.3

dec
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Dec. 24	San Pablo Creek (saltmarsh), Richmond, Contra Costa Co., Calif.				
792	♂	T.L. 5 mm.	<i>Microtus californicus</i>	175-53-22-17	wt. 41.8
793	♂	T.L. 5 mm.	"	169-53-22-17	wt. 41.7
794	♂	T.L. 5 mm.	"	163-47-20-17	wt. 39.8
795	♂	T.L. 4 mm.	"	172-55-21-15	wt. 38.2
796	♂	T.L. 6 mm.	"	173-54-21-14	wt. 37.0
797	♂	T.L. 4 mm.	"	178-57-22-17	wt. 36.9
798	♀	no emb. 4 scars.	"	180-55-21-17	wt. 54.7
799	♀	no emb. no scars.	"	181-52-21-17	wt. 49.3
800	♀	no emb. no scars	"	182-52-21-17	wt. 48.5
801	♀	no emb. no scars	"	175-51-21-16	wt. 46.2
802	♀	T.L. 5 mm.	"	173-51-21-16	wt. 44.7
803	♀	no emb. no scars.	"	165-44-19-15	wt. 43.8
804	♀	2 emb. 7 mm.	"	171-51-21-17	wt. 41.0
805	♀	no emb. no scars.	"	160-46-21-16	wt. 39.5
806	♀	no emb. no scars	"	163-49-21-16	wt. 39.5
807	♀	no emb. no scars.	"	175-55-21-15	wt. 39.1
808	♀	no emb. no scars.	"	172-51-20-16	wt. 38.6
809	♀	no emb. no scars.	"	160-43-21-16	wt. 37.3
810	♀	no emb. 3 scars.	"	179-52-21-15	wt. 37.0
811	♀	no emb. no scars	"	180-54-20-16	wt. 36.5
812	♀	no emb. no scars.	"	175-55-20-17	wt. 35.7
813	♀	no emb. no scars.	"	167-50-20-15	wt. 32.0
814	♀	no emb. no scars.	"	162-50-21-17	wt. 31.8
815	♀	no emb. no scars.	"	154-45-20-16	wt. 31.5
816	♀	no emb. no scars.	"	160-46-20-17	wt. 31.4

Dec. 30
skull only
817 sex ? *Microtus californicus*

pick-up George Fisher
no measurements

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Journal

california

Feb. 9 Left Berkeley about 8 AM to Marinette, Del and John Corley. Crossed Richmond San Rafael Br. along road $1\frac{1}{2}$ mi. W of bridge. Avocets 5, Willets 4, Canvasback 6 \pm in ^{Ruddy ducks} near shore, large flock mostly "Cans" out in bay - 200 \pm , 50 \pm . Pied-billed grebe 5, Killdeer 6 \pm , 6 Cormorant (Double-crested prob.) near W. terminus of bridge. Several gulls included. 1 glaucous wing, 2 Bonaparte. Across road in meadow one yellowlegs (sp?) also Redwings (singing males), robins, meadowlark, 2 am. egret, one raven. To inlet across Rt. 101 between Alto and Sausalito. Calif. gull (among numerous incident. sp. of gull) Shoveller, 6 + 8 \pm 4 + 2 \pm . Canvasbacks 50 \pm . Ruddy ducks, greater yellowlegs, willet 5 \pm , Western sandpiper 8, Avocets 15 \pm , am egret 5, House finch, Brewer's bl. bird, Golden-crowned sparrow 5 \pm , Redwings 4, Song sparrow 1, Snowy Egret 1, pintail 1 \pm .

Richardson's Bay at 10:45 AM. Mostly Ruddies and "Cans" also Western grebe numerous and scarp (sp?). Snowy egret 3, am. Egret 1. At one road to Belvedere from mainland, 1 common loon, eared grebe, western grebe. Flock of Gulls: Calif. 20 \pm , short-billed - 3, glaucous-winged 3, willet 3. As we watch the flock grew in number and diversity. Also seen Western Gull 3 \pm , Brown Pelican.

Picked dead horned grebe up off road along Richardson's Bay (G.S.T. # 542) Proceeded on to Bodega Bay. En route along the coast saw several rocks with Brandt's Cormorants. At Bodega Bay saw regular waterfowl, including many Golden-eye, Buffle-head, 1 Townsend's Solitaire, Kingfishers, 2 Black Phalaropes. Raining quite hard by this time. Time at Bodega Bay 12:15 - 1:30.

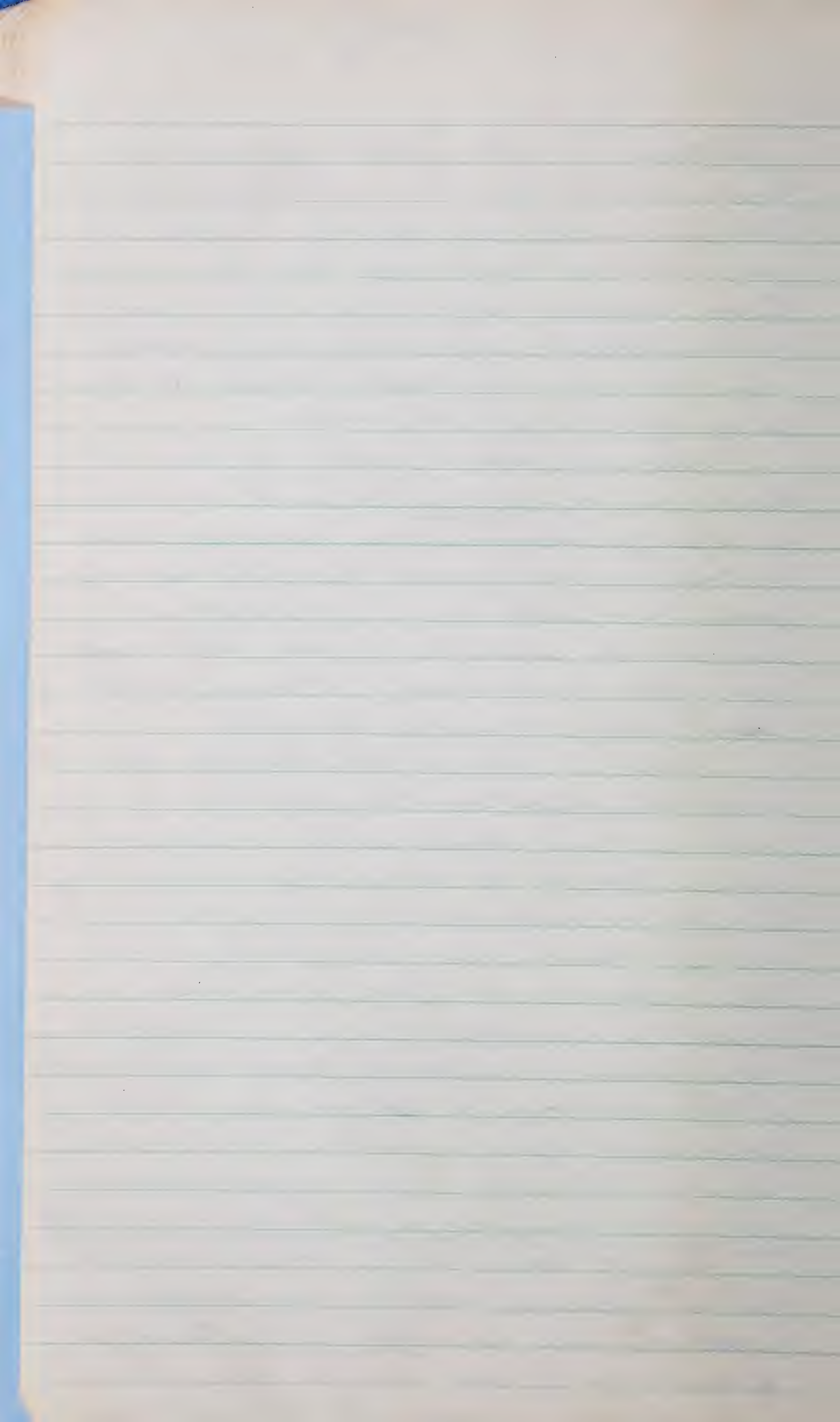
Continued north past Pt. Reyes Station toward Tomales. On Bay just south of Tomales saw large raft of Scoter, all three species. Common loons (3) also seen on bay. Rain was hard enough now to make further observation impossible so we returned home without event.

Feb. 15

Left Berkeley at 7:10 AM c Shelton F. (Jerry) Cook, Jr. for Panoche. Route via Walnut Creek, Coral Hollow Rd. (from just E of Tracy, hence via rt. 33 thru Gustine, etc. to Mendota. Birds seen were the usual. Numerous yellow-billed magpies seen near Gustine. One bird seen c nesting material in bill. On small Pond 1/4 mi W of Vallecito (on Rt. 33), Merced Co., saw 8 whistling swans with numerous coot and Ruddyies. Stopped at Dos Palos for gas, coffee, and shells at about 9:50 A.M.

Proceeded south of Mendota to junct c rt. 180 hence east toward Fresno. at locality 0.8 mi. E of junct rt. 180 and road to Tranquillity ^(mi. S, mi. E Mendota) we stopped and put traps. I had 80 museum specials and 10 live traps. Cook 101 m. specials. This area flat, numerous pools of water in shallow depressions. Abundant signs of *Dipos* and smaller rodents. Ground covered c short 1"-2" ^{veg.} green vegetation c scattered low (6"-15") bushes. Horned larks abundant, killdeer and Meadowlarks also common.

at about 12:45 returned to Mendota to store, then headed South and West toward the valley of the Panoche Creek. We drove part way up along the road that connects the San Joaquin Valley with the Panoche Valley (S.E. end of Panoche Valley) since this road was closed for winter we didn't go all the way up. Stopped at location where Grinnell and Russell trapped *Dipodomys ingens* in ^{Feb.} 1932 (at 1 mi S.W. of BM 502). We failed to find any signs of these animals. Went back along road we had taken over from Mendota to point .4 mi W, .8 mi E of BM 502 and set traps for *Dipodomys ingens*. I made 8 sets in burrow entrances as Grinnell and Russell has done. Cook put out 3 live traps. *Citellus nelsoni* also seen at this place. This area is about 2 mi. from the hills and on a very gentle slope, but before the cultivated area of the valley. Soil fine, silty, ^{veg.} just short 1" high. Returned to vicinity of BM 502, forded Panoche Creek and drove ^{due} north, across uncultivated land covered by short vegetation and scattered low bushes. Several *Citellus nelsoni* seen. This road ran off this gentle slope onto ~~cultivated~~ cultivated land before reaching junct with road from Mendota to the Little Panoche Creek.



Feb. 15 (cont.) We turned east at this junction toward the Little Panache Creek. Just as the road enters the hills along the Little Panache Creek at point mi N, mi. E of Mercey Hot Springs we stopped. Here a flat area of 3 or 4 acres between the hills and the actual valley of the stream we found more burrows of D. ingens. We set more traps, I had 17 rat traps and Cook 4 live traps. The soil here was coarser than at the other place we found D. ingens burrows - numerous small rocks and pebbles. Citellus beecheyi also inhabited this flat. Several Hyla regilla were seen in burrows. At about 5:45 we continued on road up along the Little Panache Creek. Stopped at point 5.8 mi N, 3.7 mi E of Mercey Hot Springs to see the ~~to~~ Sejoux from which ~~that~~ Bill Maher had collected the skull two weeks ago. It was a ♀. The collection of "predators" ~~on the~~ hung on the fence which included several kit foxes and a bobcat now also had a fairly fresh Coyote. I took its skull. See #362. We continued past Mercey Hot Springs, just beyond which the fence stopped and we took a side road for a quarter of a mile along a dry stream. Here we camped for the night. I set out about 50 museum specials, Cook about 20. After supper we drove back toward the valley. Just as we spot along the road in a marshy area we heard a chorus of Hyla. Several other voices were heard which Cook identified as toads. Numerous Triton were seen along the road. A night hawk ~~was~~ flew away from our camp at our return. A barn owl was heard overhead.

Feb 16 I checked my traps at our camp and had one Dipodomys heermanni. Cook had a single White-crowned Sparrow. The traps at the foot of the creek Mouth of the valley had two Dipodomys ingens. En route there we checked two old wooden bridges and an old shack along the road for bats but without success.

We proceeded to check the traps east of Mendota. Mine had 5 D. nitroideus, 3 D. heermanni, 5 Peromyscus maniculatus, Cook got 4 D. heermanni, 6 D. nitroideus and 6 Peromyscus maniculatus. Many of my traps had been set near the entrances of burrows. Activity during the night showed that traps had been obviously avoided by Dipos. Apparently the peanut butter bait completely failed to interest many of them. Several others had merely been caught by legs or tails. Only a very few were actually taken while ^{nothing in live} ~~reaching the bait.~~ traps. Most of the animals had "greens" in their cheek pouches. Returning to third trapping location near the Panoche Creek Cook found the remains of a D. ingens in one ^{live} trap. A ♀ skull only saved (C.S.T. #), Also he had caught a Citellus nelsoni alive. I had only the tail of one Dipodomys ingens. I shot a Citellus nelsoni here. Numerous American egrets were ~~often~~ seen near the road in marshy fields on our return to Mendota. After lunch in Firebaugh we continued home. Six or 8 white-fronted geese were seen in a marshy field about 4 mi. north ~~of~~ of Firebaugh along Rt. 33. In returning we took Rt. 50 into Hayward and hence along Freeway to Berkeley. Arrived MVZ at 5:15 PM.

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124 Left Berkeley at 1:50 A.M. with Marianne. To Bakersfield via Eastshore Freeway, U.S. 50, Cal 33+132, Modesto, U.S. 99 to Tipton. Stopped for coffee at Madera at 5:30 AM. Most rivers full and flooding due to recent rains. Water over the road in several places. We had run out of most of the rain by Modesto. At Tipton we were detoured east to Porterville and hence south on Cal 65. Ran out gas apparently, which delayed us ^{several minutes} ~~in 40 minutes~~. By 8:20 we were enroute again. We left Bakersfield about 9:30 heading E on U.S. 466. Had snow and rain over Tehachapi Pass. Got to Mojave about 11 AM. Looked for promising camp sites SW of town and upon finding nothing came N on U.S. 6 to

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the road up Jawbone Canyon. About 6 miles west along this road a dirt road cut off to the left. We took this about 1 mile, making camp just W of a small canyon on the S side of Jawbone Canyon. Set traps as follows:
7 traps (rat) for *Neotoma* in rock outcrop on canyon edge, 2 near place we saw Citellus leucacurus; Line of "museum specials" over sandy bottom of main valley (Jawbone Canyon), valley floor cover. of outwash material, along edge canyon and across outwash in side canyon along little ridge up canyon side and over more level ground along pathway up canyon side.

Total of about 130 traps.

Numerous birds seen as follows: House finch, numerous males singing, turkey vultures several, golden eagles - throat once around rocky prominence to the east of us ($\frac{3}{4}$ mi.) Bullock's oriole, Yellow throat, Hermit thrushes several, ruby-crowned ~~sparrow~~ kinglet, desert sparrow 3-4, also a wren and a hummingbird (unident.) after supper drove down to the main road and back looking for *Dipos.* saw none checked ^{some} traps upon return. Had 1 Peromyscus crinitus, from rocky ledge set for *Neotoma*, 1 *Perognathus longimembris* from sandy valley floor.

Jawbone Canyon, 13.3 mi N, 3.7 mi E Mojave, ~~Ariz.~~

Apr. 5 Checked traps. Catch as follows. 2 *Dipodomys merriami* (sandy valley floor) 1 *Perognathus pencillatus* (?) valley outwash, 3 *Peromyscus maniculatus* valley floor, 1 *Perognathus forrakeri* rocky area on side of canyon, 3 *Peromyscus crinitus* (rocky side of canyon) ^{2 or 3} Gambel's quail heard ~~some~~ calling part way up ^{canyon} valley side. Put up skins for rest of A.M.

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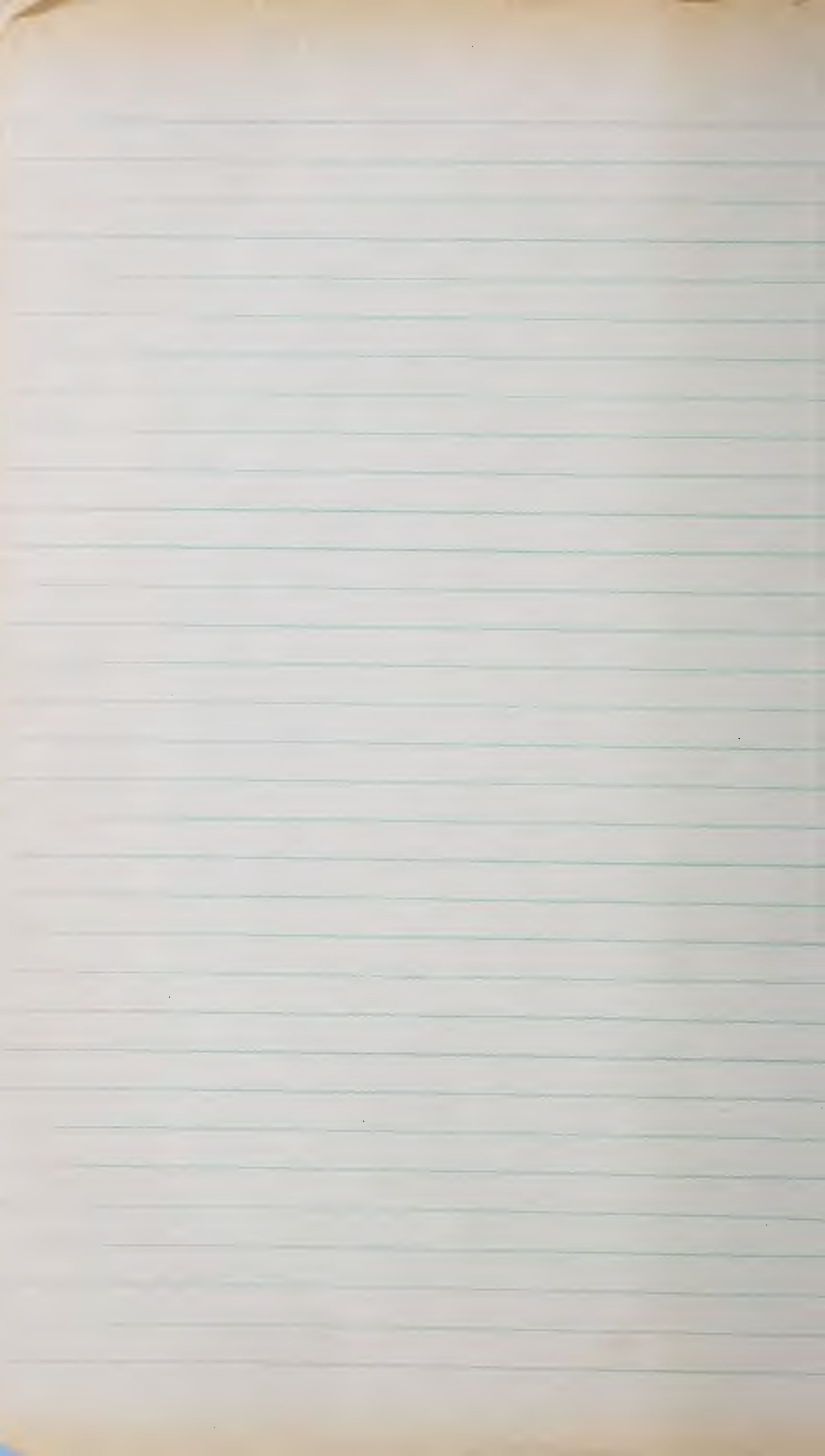
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1958

Journal
Page 7 (previous pgs.
not on MVZ
paper)

Berkeley to Mt. Shasta.

June 11.

Left Berkeley at 11:30 A.M. after completing the loading of the truck at the home of Dr. Benson. Stopped at Davis Campus to pick up live traps for gophers from Q. Tomalia. Continued on at about 1:30 N on Rt. 99W. Stopped for coffee at Arbuckle at about 2:30. Weather was overcast & slight drizzle in Bay Area, but fair in the valley.

Reached Redding shortly before 6 P.M. and stopped for supper. Continued N on Rt. 99. Stopped at public camp ground at Bailey Cove to repack the truck. Since the camp grounds were crowded and the weather was very threatening we decided against spending the night there. Continued on to the town of Mt. Shasta, arriving at about 10:30, having stopped for coffee in Denman. Since the weather was still threatening we took a room in the Park Hotel.

The clerk at the desk was apparently taken aback by our appearance - must have considered us little more than tramps. However, once he realized we were from the university and were collecting gophers he became very talkative. Dr. Benson asked numerous questions about gophers, local game warden, etc. He also informed us that the weather during June had been very rainy - rain at least once a day. However, the current forecast is for clearing after the current storm.

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Pages

June 12

Mt. Shasta, Siskiyou Co. Calif.

We got up at 7 A.M. and had breakfast in town. Then went to Forest Service Hdqts. (Trinity-Shasta Forest) Shasta Div. We inquired about camping - were told we could camp anywhere ~~in~~ the Forest. The head ranger showed us Wagon Camp - Merriam's gopher locality of 1897. He said we could drive most of the way there, perhaps all the way.

Next ^{checked} signed out of the hotel and went to the Mt. Shasta Fish Hatchery. Mr. J. Wales, the man in charge was out of town but we talked with Mr. Hill. He gave us permission to use the garage and shop for working and sleeping. He also introduced us to Mr. Joe Lombardi who owns a farm about $1\frac{1}{2}$ mi. WNW of the town of Mt. Shasta. Mr. Lombardi gave us permission to trap gophers in his oat and alfalfa fields - seemed very pleased at the prospects of getting rid of his gophers. He claimed they caused about \$1000 worth of damage to crops and mowing equipment / yr. He has done some trapping and claimed he'd caught about 500 (?) gophers from one field of alfalfa (now in oats) last year.

After securing ^{heavy gauge} wire to support markers we had lunch in town. We started to set out gopher traps about 1:30 P.M. All told we put out about 84 traps, I had out 40 ~~with~~ of which about 6

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~~Mt.~~ Shasta, Siskiyou Co., Calif. (June 12 cont)
were set singly the rest in double sets. After
setting the traps which took the remainder of
the day we went to town for groceries and
dinner.

After dinner I checked traps and put up
specimens, I had 7 gophers

June 13.

Up at 5:45 A.M., had breakfast in town and
started checking traps at about 7. I got only 3 out of ~~the~~
some 20 sets. We then spent the remainder of day putting
up skins after playing to an audience of both adults
and children.

Stopped at about 4 to check traps again. Since we
already have twenty-six skins of gophers we did not
reset traps in which gophers were taken. After
supper I put up some more skins.

at 7:55 noted a bat flying near the shed. Since
it was still light he merely sought another roost.
It appeared to be a large Myotis.

Today we were told by Mr. Hill that
Joe Lombardi is quite impressed by the large yield of
our trapping method for gophers in this field.

June 14.

Removed all our gopher traps from the Lombardi
Ranch this A.M. The total "catch" for the 3 days was 56. Then
spent the remainder of the morning skinning.

After lunch we went to town for groceries and other items.
Then went to the ranch of a Mr. Ferrero N of town. (1/2 mi.
N Mt. Shasta P.O., T40N R4W sec. 9, ele. 3600 ± ft.) We had been

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Mt. Shasta, Siskiyou Co., Calif.
told by Mr. Lombardi that Ferrero had an alfalfa field, however his place was pretty rundown and the alfalfa field was gone. There were still gopher though so I set out traps (5 doubles, 1 single)

We then returned to the hatchery and cont. putting up gophers. About 8:20 PM we went to a small pond on the western edge of the hatchery property to shoot bats. We were accompanied by Ray Hill, the 14 yr. old son of the hatchery supervisor. The first bats appeared about 8:55 P.M. I got two shots, one at a large bat, one at a Myotis but missed both. Young Hill had better success - 4 for 5. One Lasiurus and 3 Eptesicus. We also picked up a Citellus beecheyi from a schyldus trap one of the other local boys had set for us (Bell). Skinned until Midnight. Altogether we have put up 46 gophers from Lombardi's.

June 15

Up late this A.M. Checked traps at the Ferrero Ranch. These gophers proved to have a shorter baculum and to differ in other characters also. It would seem they are T. m. noticola. Therefore we set out a total of twenty traps a piece. We returned to the hatchery and skinned until 5 P.M. Then we went for dinner at the Hill's home.

At 8:45 four of us went bat shooting (Mr. Hill, Ray

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Mt. Shasta, Siskiyou Co., Calif.

Hill, Dr. Benson and myself). A shot one but failed to find it in an alfalfa field. The two Dells shot 4 between them, one was not found.

June 16

Up at 6 AM. Checked traps at Ferrero Ranch and took them up. Our total "catch" here amounted to 25 gophers. Spent the rest of the day putting up skins. After supper we drove around in the area north of town and west of the S. P. railroad tracks. The land here slopes down to the valley floor. We introduced our selves to a Dr. Werner Fletcher Hoyt, a retired M.D. from Berkeley. He gave us permission to trap gophers on his land, ~~from~~ which extends from the valley floor onto the slopes. There are numerous ~~gophers~~ alfalfa fields on his land. Since it was late in the evening we had time to set only a few traps - I set one near his house, on the valley floor in alfalfa and two about 1/4 mi to the north on the slope, also in alfalfa. The latter place had very hard rocky surface soil that became softer and less rock at a depth of about 6 inches. The bottom land soil had few and smaller rocks and seemed a little softer.

June 17

Up by 2 AM. Checked traps on the Spring Creek Ranch (the Hoyt place). I had two gophers in two sets but both were in the same double set. We then continued setting traps on the Hoyt Ranch. Five double and three

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Mt. Shasta, Siskiyou Co., Calif.

June 17 (cont.)

singles were set across (east side) of the road, Pine Grove Drive, from those set last evening. Then we went south about $\frac{1}{4}$ mi., down a rather sharp slope and I set 5 doubles and one single in this field. It was planted with alfalfa & much grass and clover. Ray still accompanied us during the morning and was of great assistance in locating gopher workings and helping in setting of traps. On the way out we stopped out by the Hoyt house and took a single young male gopher.

During the afternoon I skinned. We ate a quick meal in town and checked the traps on the Hoyt Ranch. Those Ray and I had set on the higher field (mentioned first above) yielded seven gophers, one had been caught before we left in the morning. The lower field yielded four ♀♀ out of six sets. On the way out we checked the other set by the Hoyt house and took one ♀.

June 18.

Up by 6:30 this morning. Spent the A.M. checking and setting traps on the Hoyt Ranch. I took four young gophers here this morning. The afternoon was spent in skinning. After supper we returned to Hoyts. We stopped to talk with the doctor and his wife. They told us that their land had been ^{covered by} forest and brush ten years ago and they had cleared most of the present fields themselves. I had three gophers in traps this evening. Had a thunderstorm this evening & but light rain.

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June 19

Mt. Shasta, Siskiyou Co., Calif

Last evening Dr. Hoyt gave us a map of his property. The following are our collecting localities on the Spring Creek Ranch (Hoyt's) and their equivalent: 0.4 mi W Big Spring, $3600 \pm$ ft = 900 ft east, 700 ft north of middle of sect. 8
0.2 mi W, 0.3 mi S Big Spring ($3560 \pm$ ft) = 1000 ft. east, 900 ft south of middle of sect. 8
0.2 mi W, 0.6 mi S Big Spring, $3550 \pm$ ft = 1000 ft. east, 2300 ft. south middle of sect. 8.

Also see map on pg 14 (Journal)

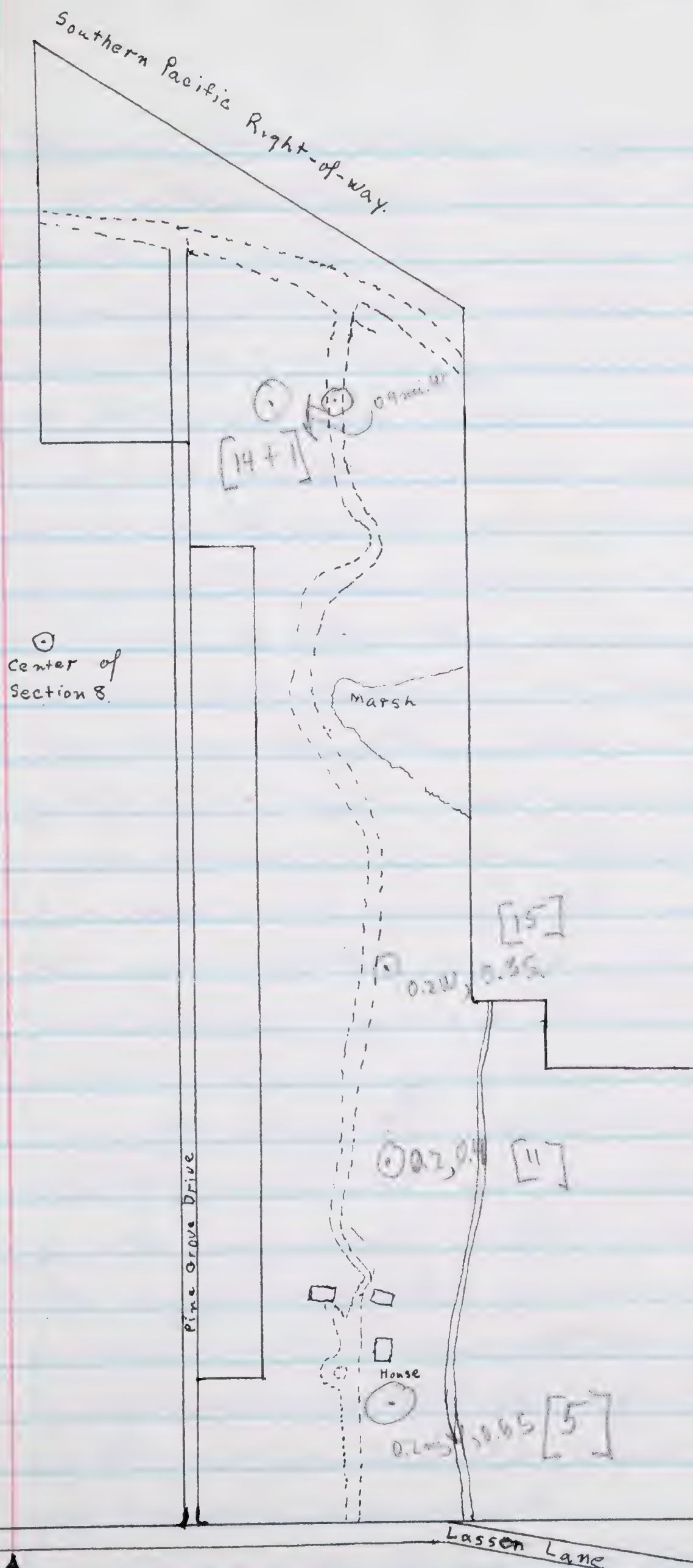
Up at 7: AM. Spent the morning finishing skinning animals from yesterday. After lunch we returned to the Hoyt place and picked up our traps. I had 4 gophers - all females. Later we set traps in the alfalfa field on the Lombardi Ranch. After a supper in town we started skinning. I took time to go bat shooting but with only limited success. Last evening we had a thunderstorm and today it was overcast most of the day. ~~Over~~ It rained for a few minutes between 5 and 6 P.M. Consequently it has been cool all day. Probably this was responsible for the fact that I saw only three bats between 7:10 and 9:45 P.M. Other evenings when we shot bats the weather had been ~~much~~ warmer. In fact since last Friday the days have been very warm (local people say about 10° above normal) and the evenings mild.

Spring Creek Ranch (sect 8 T. 40N, R. 4W)iskiyou Co. Calif.

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scale 1" = 600'

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June 20 Mt. Shasta State & Fish Hatchery to Wagon Camp, Siskiyou Co.

We pulled our traps on Lombardi's after catching about 12 more gophers. Then packed and left for Wagon Camp with Ray Hill, son of the hatchery superintendent. We drove south of the town of Mt. Shasta about 4 miles ^{on US 99} and turned east at the lumber mill on the road toward McCloud. After driving about 7 miles on fairly good dirt road we turned north at a fork of the road and drove up it about $1\frac{1}{2}$ miles to Wagon Camp. Wagon Camp is a long ^{sloping} narrow meadow with numerous small streams flowing thru it. One large stream ~~has~~ cut a deep gully (about 6' deep in most places). The entire area ~~is~~ abounds in springs. There appeared to have been much washing of the meadow this spring. All the gophers in the meadow must have been washed. The only places where we found recent signs were in higher places along the edge of the meadow. We have been told that this was a "wet" year and this may account for the heavy washing of the meadow. There are still many snow drifts in the surrounding woods. In one place where it was protected by a fallen tree the snow was still about 4 feet deep. The surrounding area was covered by brush and second growth spruce and Doug fir(?).

after lunch we set some gopher traps but repair workings were hard to finish. I also set about 50

Chandler
1958

Journal
Pg. 16.

June 20.

Mt. Shasta to Wagon Camp, Siskiyou Co., Calif (cont
museum special along a very small stream,
adjacent part of the meadow and in the bordering
woods. After supper we tried to shoot bats
but did not see a single one. The temperature
by 10 P.M. was 44°F and a wind was blowing.

June 21

Wagon Camp to Mount Shasta State Fish Hatchery,
Siskiyou Co., Calif.

Up about 7 A.M. Checked and took up my traps
before breakfast. I had one gopher, three Microtus
longicaudus, one Eutamias amoenus, and three
Peromyscus maniculatus (discarded)

after breakfast we put up specimens until
about 1 P.M. Then broke camp and returned
to the hatchery via yesterday's route.

The Hills again invited us to dinner and let
us use their shower. After dinner we
tried bat shooting but I had only one shot
that I missed.

June 22

Mt. Shasta Fish Hatchery to Crystal Spr. State Fish
Hatchery, Shasta Co., Calif.

Up at 7 A.M., packed and left by 8:15. Took
Rt. 89 South and east to US 299 then into Bureau
for groceries. About 11:30 A.M. we arrived at the
Crystal Springs State Fish Hatchery. Mr. Mill had
arranged with the superintendent here, Mr. Delbert
(Buy) West for us to stay here. Although Mr. West was

Traylor
1958

Journal
Pg. 17

June 22 ^{Lake} Traylor Hatchery to Crystal Lake State Fish Hatchery (cont.)
away for the day one of the others of the staff here opened house for our use. We now have all the comforts of home; hot and cold running water, a gas stove, lights, and a refrigerator. After lunch we set some gopher traps on the hatchery property, mostly around the fish rearing ponds. Also set some traps on higher ground (about 50 ft higher) to the north of the hatchery. Here the predominant trees were oaks and junipers with grass land in between.

Later in the afternoon I checked my traps and had 3 gophers. All these came from around the hatchery ponds. Just before dark I took up my traps from the higher ground without catching any gophers. Spent the evening skinning. We had a heavy thunderstorm during the night.

June 23 Crystal Lake Hatchery to Berkeley via McCloud, Siskiyou Co.

Took up the remainder of my traps this A.M. and had 2 gophers. Spent the morning skinning and packing up. About 2 P.M. we left the Crystal Lake State Fish Hatchery. We retraced our route of the previous day up Rt. 89, turning north on a dirt road about 9 mi. east of McCloud. We intended to go to Tennent but after covering about 10 miles of the total distance of twenty-five miles the truck got stuck as we tried to ford a stream. The storm of the previous night and this A.M.

Thaler
1956

Journal

Pg. 18

June 23 (cont) Crystal Lake Hatchery to Berkeley via McCloud, Siskiyou Co. Calif.
had raised the stream's level ~~pre~~ so we decided
not to go further. We then started back toward
Rt. 89 looking for gopher signs. At several
places we found old signs and finally at
a point 8.5 mi. E, 2.9 mi. N McCloud, 3750± ft., Siskiyou Co.,
Calif. we found some recent gopher signs. ~~we~~ ^{and one half} I
set about 7 sets. We waited for about two hours until
9:30 P.M. By this time I had one gopher in my
traps. We then pulled over traps and started
home. Stopped for supper in Dunsmuir, coffee and
gas in Williams, arriving in Berkeley at about 5:30 AM
June 24.

Haeder
1958

Journal
Pg. 19

July 14

Berkeley to Vallecito Stage Station, San Diego Co., Cal.

I left Berkeley last evening at 8 P.M. with Al Beck of the Dept. of Vet. Public Health, U.S. at Davis. We drove all night stopping at San Diego at 9 A.M. Al wanted to see some friends at the San Diego Zoo. We left for Vallecito at about 11:30 A.M. Drove east along H.S. 80 to the jct. of 79, then north to Julian. Then drove east on Rt. 78 to Scissors Crossing in San Felipe Valley, hence south ^{arriving about 1:45} along paved road to within 2 miles of the Stage Station.

This is to be our camp for the next couple of days. Mr. "Bud" Beroit is in charge of the County park here. Al knew him from previous trips here and received permission to catch night roosting bats in the stage station bldg. We then drove down to Agua Caliente, about 4 miles farther east (and south). Here Al also knew the ^{Ranger} caretaker, a Mr. ^{Swanson} Fred Swanson who gave us permission to net bats over two of the open pools that evening. We then returned to Vallecito and slept for a couple of hours.

About 6 we got and drove to Mason Valley. This valley is 5 miles W along the road in from Rt. 78. Between Vallecito Valley and Mason Valley there is a steep rise. (Mason Valley being higher. This is F. Stephen's La Puente Valley. The vegetation is quite different in these two

Haeber

1958

Catalogue

Pg 20

July 14. Burbank to Vallecito Stage Station, San Diego Co. Calif.
valleys. In Vallecito Valley the vegetation is ^{cholla} acutillo, barrel cactus, and ~~cholla~~ cactus. This is very little grass. In Mason Valley the vegetation is predominantly mesquite with much more grass. The vegetation of Vallecito is much the same as around Agua Caliente. There was much sign of Dipodomys here in Mason Valley. We set 50 museum specials.

On our return to Vallecito we stopped where the road reaches the bottom of the grade between the valleys. Here we set 8 shyfters for Neotoma among the rocks.

By this time it was almost 8 P.M. and the first bats were seen. We drove to Agua Caliente. Al netted Pipistrellus over the large pool, I over the small one. In an hours time I had taken about 7 bats, Al about 10. He banded and released all but four.

After this we returned to Vallecito for supper, after which I went to ^{bed} ~~to bed~~. Al caught some Antrozous and Corynorhinus night roosting in the station. I'll put these up later.

Chandler
1958

Journal
P. 22

July 15^(cont)

Vallecito Stage Station, San Diego Co., Calif.
valley between the mtn. ranges. He said he hadn't seen any for 4 or 5 years. However Al Beck said he had noticed what he thought to be scat and tracks where we had set traps, $1\frac{1}{2}$ miles east of the stage station, here the valley is the narrowest and according to Benoit it is a regular crossing.

Other mammals seen commonly while we were here included jack rabbits, cottar tails and antelope ground squirrels.

Also Benoit mentioned that the man who owns the Crawford Ranch is a irritate recently about trespassing. If someone wanted to trap there permission might be secured ahead of time by writing Mr. Robt. Crawford, Agua Caliente Springs Rural Station, Julian, Calif.

July 16.

Vallecito to Teneo Mines, Imperial Co., Calif.

Up at about 6: AM to check traps. I had two Reithrodontomys and one Microtus in the grass at the stage station, one Dipos, one Perognathus, and one Peromyscus eremicus from $1\frac{1}{2}$ miles east, 2 Dipos, 5 Perognathus (sp.?) and 2 Perognathus spinatus from the stage station and one Neotoma from the same place as previously, and 4 Dipos (2 discarded) and 1 Perognathus from Mason Valley.

about 1 P.M. we left Vallecito. We drove south to

Thaler
1958

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July 15.

Vallecito Stage Station, San Diego Co., Calif.

Up by 5:30. Checked traps in Masan Valley and had 4 Dipodomys merriami and two Perognathus. Another trap had a badly eaten Perognathus, a second a badly eaten Perognathus and a third a Perognathus tail.

I had one Neotoma in the schyler set in the rocks.

After breakfast I spent the A.M. skinning.

Slept for a couple of hours after lunch. Set 25 traps in the grass around the stage station, 50 more in the sloping valley floor across the road from the stage station, and 32 more about 1 1/2 mile down the road (east) along the draw leading to the main creek bed.

About dusk (8 PM) we returned to the pools at Agua Caliente Hot Springs to net Pipistrels. We got a total 55 (approx 1 "pipp"), 2 Corynorhinus and one M. californicus.

About 9:30 we started checking the night roost at the stage station. 9:30:- ^{11^{PM}} ~~2~~ M. calif. (9 or 10)

11:-12 M. calif., 1 Corynorhinus, 1 C. v. calif.

12:00 to 12:30 Antrozous, 1 M. calif., 3 Corynorhinus.

12:30:- 1 Corynorhinus, 1 M. calif. at 1 AM nothing

While talking to Alexander "Bud" Benoit, the ^{Ranger} caretaker at the stage station, he told of seeing occasional groups of mtn. sheep crossing the

Thaeler
1958

p. 23 Journal

July 16 Vallecito to Temco Mines, Imperial Co., Calif. (cont)
U.S. 80, then east to Winterhaven for supplies,
namely beef at Arizona prices. Then we re-
turned west and north thru Ogilby and the
Gold Rock Ranch. Here we talked for a few
moments to the owner, Mr. Walker, then drove
east to the Temco Mine area. We camped
at one of the few remaining buildings, an
old corrugated structure on the north side
of the valley.

I set out a line of traps starting ^{near} ~~down~~ the
building and continuing down along a gully
for about 250 yards. This line composed about
100 traps.

Later Al found a new ^(to him) mine shaft (horizontal
near where we were camped. It was ~~west~~ east of
where we were camped. We went up and over a
saddle and down the other side. ~~At~~ ^{near} the valley
floor ^{level} well concealed by bushes was the shaft.
We found several Macrotes and Antrogonus
in it. Later we investigated the ~~fe~~ mine
shaft that took off horizontally from
where we were camped. This one too
~~had~~ Macrotes (about 15) in it.

This evening after supper our shed
proved to be alive with mice. We set about
twenty-five traps around inside. Also several
bats used the bldg. for night roosting but we

Thacker
1958

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July 16 (cont) Tumco Mines, Imperial Co., Calif.
were unsuccessful in catching any ^{in good shape}. About 9:30 P.M.
I checked the trap line and took 6 Perognathus, 3
Peromyscus and a Neotoma.

July 17 Tumco Mines, Imperial Co., Calif.

This morning my traps produced 7 Perognathus
1 Dipodomys merriami, 3 Peromyscus, and 1 Neotoma.
In checking the mine shafts I got several Macrotus
and Antronyx to set up. While I settled down to
spend the A.M. skinning A.L. set out to check
other mine shafts for bats. However after 20 min.
he called me to help get a rathe he cornered under
a rock. After struggling for 20 min. or so we
were able to lift the rock enough to get a
shot at the snake ~~and~~ getting bitten. It
proved to be a Crotalus mitchelli. While checking
and re-baiting trap that evening I got a ~~Cnemidophorus~~
Cnemidophorus out of one of them.

During the day the heat was oppressive.
This was heightened by a lack of water. The
area has no springs or wells so our water
was limited to what we had brought in.

About 1 P.M. Beck returned with several
bats he had found. These included 7 Eptesicus and
3 Pipistrellus that I put up. The remainder he banded
and released.

July 18

Tumco Mines to Mountainer Mine, Riverside Co., Calif.

We got up early and I pulled in my traps getting

Thaler
1958

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July 18 Tumco mines to Mountaineer Mine (cont)

only 1 *Perognathus*, 2 *Peromyscus* and a *Neotoma*.

As soon as the packing was finished, about 8:30 AM we left the Tumco mines, returned to the "main" road and headed north thru Mid-way Well, Palo Verde (the country here was a treat after the area at Tumco) and on thru Blythe and hence north on U.S. 95. Just before reaching the Riverside - San Bernardino Co. line, about 6 miles S of Vidal we turned west off the main road at a sign indicating the New Era Mine (= Mountaineer mine) After driving about 0.8 mi. we parked the car and continued on foot, down across a canyon just above where it leaves the mountains and hence up along the canyon a total of perhaps 0.4 mi. from where we parked the car. On the left or south side of the canyon there was a mine shaft with several small structures. Opposite this on the north side another horizontal shaft opened off the canyon. We crossed and entered this mine. After working this level and securing a few *Microtus*, *Antrozous* and seeing some *Myotis* we descended into the lower parts of the mine. We went down a total of five levels, probably 300-400 ft down. The ladders and timbers all seemed sound. On the third and fourth levels we encountered good numbers of *Myotis vellifer*. The fifth level had very extensive tunnel

Thaler
1958

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July 18 Mountaineer Mine (Cont)

systems, and the Myotis vellifer were thick. We were able to capture upwards of fifty from a single cluster with the net. Upon ascending an inclined shaft we reached the surface but on the south side of the canyon. Leaving those bats we had caught, we headed on up the canyon. After 0.1 mi or so the canyon swung south (left) while we continued west up and over a saddle. On the other side lay ~~the~~ a valley and the same stream we had been following. On the south side ~~lay~~ of the valley were some mine workings. Here we found many ~~habitat~~ Macrotrus. The upper tunnels, all short affairs, had a few of these bats but after moving down across an area of ~~breakdown~~ ^{roof} I found ~~an~~ ^{an} area, low ceilinged, terminating in a V. deep vertical shaft. This area was overloaded with Macrotrus. We ~~secured~~ ^{secured} ~~more than~~ ^{more than} 100 of these bats. By this time it was almost sunset. We started back but decided to follow along the canyon instead of climbing up and over the saddle. ~~By this~~ This ill-chosen route ^{it} was about 1 1/2 miles back to the first mine, perhaps double the distance of the way we took in. ~~as soon as the sun~~ While there was still much light left we noted that

Thaler
1958

Pg 27 Journal

July 18 Mountaineer Mine to Indio, San Bernardino Co., Calif
there were ~~many~~ ^{some} small bats beginning to fly, probably
Pipistrells. We picked up our remaining equipment
and proceeded to the car. After driving out to the main
road we transferred the bats to cages. Many of the
Macrotes had died. Beck banded and released a few.

We drove on to Vidal Junction, ate dinner and
then drove west to Indio and got a motel about
1 A.M. ~~at~~

July 19 Indio to Mountaineer Mine, Riverside Co., Calif

When we got up about 9 A.M. we found most of
the Macrotes dead. Also many of the Myotis vellifer
had died. Beck wanted to investigate reports he
had received about large roosts of free tail bats
at the USDA Date Station here. After breakfast
we went out there but found ~~no~~ roosts that
were currently being used. Since the main
purpose of Beck's trip was to secure live
bats for experimental work he felt he should
make another attempt to secure Macrotes. We
now had only about 5 left alive. I saved most of
the dead ones plus some M. vellifer to put up.

We returned to the Mountaineer mine, arriving
about 2 P.M. This time we carried in cages to put
the bats in rather than use sacks. We hoped
this would cut down on the number of deaths. We went
through both mines but with little success. Most of the
Myotis had moved to areas of the mine we couldn't reach or

Thaler
1958

Pg 28 Journal

July 19 Mountaineer Mine to Davis, Calif (cont)
were not present in the mine at all. The Microtus
had, by enlarged, left these mines altogether.
At the second mine where yesterday we had found
perhaps 1500⁺ bats, today there were scarcely 150±.
We did secure about 40 Microtus and some more
Myotis. We got back to the car about dark and started
back to Davis after dinner at Vidal function. We
went via Pinnacles, Aubrey, Barstow, Mohave, and
Buckfield arriving about 1:30 PM July 20 at
Davis.

Sept. 16 1.0 mi. N, 2.0 mi E Martiney, Contra Costa Co., Calif.

This afternoon George Foster and I drove
out to Martiney, he to catch Reithros, I Microtus
We set out both live and snap traps. I got out about
two hundred snaps, George about 40 live traps and
60 snap traps.

Sept. 17

Checked traps at Martiney but took no Microtus
I did get a good number of shrews (Sorex ornatus) and
both Reithrodontomys megalotis and R. halictes.

Sept. 18

I got 3 Microtus finally.

Sept. 19

~~Sept. 19~~

Sept. 20

Again no Microtus but shrews and Reithros as usual.

One Microtus. Moved the location of most of my traps.

Thacker
1958

P. 29 Journal

Sept. 21 Martiney (saltmarsh), Contra Costa Co., Calif.
Two Microtus.

Sept. 22. Two more Microtus. I've been discarding most of the
Reithros I've caught, but put up all the Loxys.

Sept. 23 Two more Microtus. I pulled my traps.

Dec. 22 San Pablo Creek (saltmarsh), Richmond, Contra Costa Co., Calif.
George Fiesler and I left campus about 1: P.M.
to go to this locality. George had been there
previously to trap. We enquired at the home of the
Rauti's about permission to enter the marsh
behind their house. They told us Stand. Oil. Co. (S.O.C.)
owned the Area. After much running around
we talked to two men in the Plant Protection
of the Richmond Refinery. They assured us we could
go into the area.

Upon returning to the marsh we walked around
for a while. Microtus sign was abundant.
Finally I settled on a place to trap and started
setting out traps. Saw a local farmer,
came up and told us he rented the land from Stand. Oil.
Finally we talked him into letting us continue our
trapping. I got out only 52 traps by dark but already
had 6 Microtus.

Dec. 23.

Checked my traps this A.M. and took one Loxys onitae

Thaele
1958

P. 30 Journal.

(cont)

Dec. 13 San Pablo Creek (saltmarsh), Contra Costa Co., Calif.
and ~~25~~¹⁵ (!) Microtus. I set out the remainder of
my traps, about 100 more. Five more were taken in the last 100.

Dec. 24 San Pablo Creek

This morning I checked my traps and had
32 ~~animals~~^{microtus}, 3 Sorex vagrans halaculus and numerous
Reithros. Since this furnished me with a sufficiently
large sample I picked up my traps getting 8 more
microtus.

Thaeler, C. S., Jr.

1968

Species Account

Thomomys

misc.

Thaler
1958

Species Account.

Thomomys talpae

June 22

Crystal Lake State Fish Hatchery, 3000± ft, 1 mi. N. Castell, ^{Shasta Co.} Calif.

Took 3 gophers (519-521) from my ~~set~~ around the ponds of the hatchery. Gopher workings are very common in the dikes between these ponds. The soil is deep and moist and well covered by grass.

The sets ~~on~~ the nearby ~~near~~ ^{low} dikes had nothing. The soil here is often very thin, more gravelly, dry and red.

June 23

Took 2 more gophers today (522-523). ~~Set~~ from around the hatchery ponds. Dr. Benson had a couple of animals from the adjacent higher ground. These seemed identical to those we'd gotten from ^{in color pattern} lower down, but were much smaller. The difference may be partially due to age, but it certainly is striking.

Species account.

Thaeler
1958

Thomomys (monticola) "pinetorum" } = ^{mayanus} Ag. 1

June 12

Lombardi Ranch, 3225 ± ft., 1 1/2 mi WNW Mt.

Shasta P.O., T40N, R4W, Sect. 17, Siskiyou Co., Calif.

Set out 40 gopher traps (Macabee) during the afternoon. About 6 were in single sets on lateral tunnels, the remainder on main tunnels in pairs. The area trapped consisted of cultivated fields on the Lombardi Ranch. One field was planted in oats. Two kinds of seeds were used in planting and the resulting plants now averaged about 4" and 8" high. Prior to this year the field had been in alfalfa but Mr. Lombardi had ~~decided~~ plowed it under since the gophers were so abundant. I also put 3 sets in a field of alfalfa and grass. Most of traps were placed in fresh mounds some not more than a few hours old. The soil for the top 3" was very dark, fine and light. It had lots of small rock fragments (angular not stream-worn). Below this layer was a sandier or much lighter in color ^{almost} approaching yellow. The land was well drained. The surrounding area was conifer forest with cedar and dwarf fir as two of its prominent species, also more open meadows & conifers and deciduous trees.

Upon checking the traps about 7:30 PM I had gotten 7 animals (nos. 446-452). Three of these had come from the three sets in the alfalfa. Two of these were reset also in the alfalfa field. The other five sets were not reset.

Thacker
1958

Species account

Thomomys (monticolae "pinetorum") = mayanus
Pg. 2

June 13.

Lombardi Ranch, 3525 ±; 1 1/2 mi. WNW Mt. Shasta PO
Siskiyou Co., Calif.

at 7 AM
Checked gopher traps, in the oat and
alfalfa fields again. I had only three gophers -
2 adult ♀♀ (nos. 453-454) and a young ♀ (not saved).
One of my remaining two sets in the alfalfa had a
gopher. The other two came from the oat field.
Dr. Benson got 14 gophers during the night. I reset
all ~~check~~ traps that had taken gophers. I now have
5 sets (4 double, one single in the alfalfa.) This
morning there are many recent workings present.
Most of my sets are now the recent workings.

Checked traps again about 4 P.M. I had six -
one from the alfalfa the remainder from the oat field.
Since we already have 26 skins we did not reset
the traps which took gophers. This afternoon's "catch"
included 1 ad. ♂, 4 ad. ♀♀ and one young ♀ (not saved).

June 14

(Same locality as above)

I caught four gophers overnight. One adult ♂,
one young ♂ and two ad. ♀♀. We pulled all traps
from Lombardi's. The total "catch" amounted to 56 gophers
of which a total of 46 were saved.

June 18

Spring Creek Ranch (May's), 3560 ± ft, 0.2 mi W, 0.3 mi S Big Spring, Siskiyou Co.,
Calif., (T. 40 N, R. 4 W, sect. 8). I took for young here this A.M. also

This evening I had one ad. ♂, one ad. ♀ and one young ♀.
The ad. ♂ was taken at the extreme north end of the pasture, within
75 yds. of the place I had caught a typical monticolae.

Thacker
1958

Species Account

Thomomys (monticola "penetorum") = mayanus P. 3

June 19

Spring Creek Ranch, (Hayti) 3560 ± ft., 0.2 mi W, 0.3 mi S

Big Spring, Siskiyou Co. Calif. (T. 40 N R. 4 W, Sec. 8)

I caught 4 gophers in 13 sets here today. All were females. The two larger ones were almost the same size. (nos 497 and 498). However 497 had a much enlarged vagina and uterus and much mammary tissue while 498 give no indication of ever having bred. Her reproductive tract was very thin resembling the smaller females nos 499 and 500.

June 20.

Lombardi Ranch, 3525 ± ft., 1 1/2 mi. ^W NW Mt. Shasta P.O., Siskiyou Co., Calif. (T. 40 N, R. 4 W, Sec. 17)

Yesterday we again set out traps here. This morning I had caught 6 gophers: 20²⁰, 4 ~~20~~. All these were taken in an alfalfa field, previously trapped. Since our trapping here a week ago the field had been cut and the alfalfa was ~~in~~ rows drying. These 4 nos (502 thru 507) were preserved in formalin (1:9).

Thaler

1958

Species account

Pg 1

Thomomys monticola monticola Pg. 1

June 15

yesterday we (Ben and myself) set
gopher traps on the Ferrero Ranch, 3600± ft. 1/2 mi.
N Mt. Shasta P.O. (T.H. 04, R 410, sect 9) Lakeview Co. Calif.

This morning we had a total of 10 gophers
(I had 5 from 6 double and one single set.)
One was an ad. ♂ (C.S.T. # 463) all others were
ad. ♀♀. (Nos 464-467 for those I caught). All
of these appeared different from those taken
prior on the Lombardi Ranch (see T.M. "pintura").
The ♂ had a distinctly shorter baculum, also the
ears were in general larger, esp. the crown
measurement which was usually 8 or 9 mm
rather than 6 or 7. Also the tail length averaged
larger. The ears, esp. of the ♂ were distinctly pointed.
They seemed to average less in weight than the
other gophers, but this may be correlated to what
appeared to be a poorer field.

The habitat was the gentle slope of the
base of Mt. Shasta (the others were on the
valley floor). The field I trapped was an
old alfalfa field that now had a covering
of grass and annuals & scattered alfalfa
plants. The soil seemed harder, with less
rock in it than the soil where the gophers
from Lombardi's were taken. It was dark brown for
the first 10"±. Below was a more sandy lighter earth.

Thacher
1958

Species Account

Pg 2

Thomomys monticola monticola. pg 2

June 16 Ferrero Ranch, $\frac{1}{2}$ mi. N Mt. Shasta P.O., 3600 \pm ft. (T. 40N, R. 4W, ^{sect. 9)}

Siskiyou Co., Calif. — This A.M. we checked our traps here. I had 6 gophers: 3 ad. ♂♂, 2 ad. ♀♀, 1 young ♀. (Nos 468-473). The total "catch" from here amounted to 25 animals. Of these only two were juvenile. This is a much smaller proportion than we had of the other kind of gopher. Also the males of this species kind seemed to be well past breeding condition as their testes were soft and ~~for~~ rather dark in color. Their ~~epididymic~~ epididymic were somewhat smaller. The reproductive tracts of the females were different in form also. The uterine horns were generally much smaller (possibly due to longer elapsed time since birth of young) and the vaginas were shorter.

June 17

Spr. Cr. Ranch (Hoyts'), 3600 \pm ft., 0.4 mi W Big Spr. ^{see USGS 7 1/2' quad}
Siskiyou Co. Calif. (T. 40N, R. 4W sect. 8) Weed

This A.M. I had two gophers in a single double set here. One was an adult male, very large & a short baculum, the other a young female. This field is planted in alfalfa, an upland variety. The soil is very hard with much rock in it. This field had been plowed and disced this spring. Vegetation was sparse in some places. The surrounding area was mostly brush covered.

This evening I had caught 7 gophers in the field across the road, to the east of the one mentioned above. These included: 2 ad. ♂♂, 3 ad. ♀♀, 2 young ♂♂. Also got one ad ♀ before

Ghaeler

1958

Species account

Pg 3

Thomomys monticola monticola

#3

leaving this A.M. (total of 8 for the day). This field had a little alfalfa, some grass, annual plants and large areas thickly covered by bracken (?) fern. There were numerous pine trees (yellow?) but no cedar that is common on areas below this. The soil was similar to that previously described for the area to field adj. to this one. The soil in both these fields was quite dry.

(Hayti)

June 17.

Spr. Cr. Ranch, 3550 ± ft., 0.2 mi W, 0.3 mi S Big Spr. Siskiyou Co.

Calif. (T. 40N R. 4W, sect. 8). This evening I caught four gophers in this field, all ♀♀: 2 ad. 2 young. These may represent both forms. This field is planted in alfalfa with much clover and grass. Both pines and cedars were present in this field. The soil was fairly hard and rocky but perhaps slightly more moist than the field to the north. (nos. 479-485)

Spr. Cr. Ranch, (Hayti) 3550 ± ft., 0.2 mi W, 0.6 mi S Big Spr.

Siskiyou Co. Calif. (T. 40N, R. 4W sect. 8) I caught one young

♂ in my set here this A.M. This field is planted in alfalfa and seems to be exclusively this. It is just W. of the main house on the ranch. The gopher from here is as yet questionable as to which form it represents. An adult ♀ taken this evening by Dr. Benham may be ~~not~~ assignable to the long baculum form.

When I packed these specimens up (nos 486-489) the vaginas of all the females were quite long (Vaginas were measured from external opening to branching of uterus) These I feel they are of the "pinetorum" type ^(for further note see this entry)

Thacher

1958

Species Account.

Thomomys monticola monticola p. 4.

June 20 Wagon Camp, 5.8 mi S, 1.0 mi W Mt. Shasta (summit), 5800 ± ft.
(T. 40 N, R. 3 W Sec. 8)

Siskiyou Co., Calif. (see U.S.G.S quad. 7 1/2' series -

Weed.) This location was verified by a Forest Service location marker found near by.)

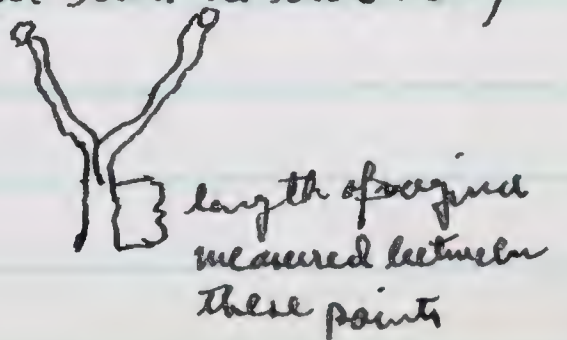
The meadow here has many old gopher signs (winter cores and mounds) but recent flooding appears to have wiped out much of the ~~former~~ ^{recent} population of animals. The only gopher signs and the only places we caught gophers were ~~scattered~~ around the edges of the meadow in places where no flooding had occurred. The surrounding forest included spruce and Douglas fir(?).

This flooding of the meadow may have caused a higher concentration of gophers around the edge. In one place I caught 3 ♂♂ in ~~three~~ double sets on a ~~just~~ line only 15 yds long. However, the recent gopher signs were fairly scarce. I put out 10 set and 3 hours later had taken six gophers. (nos. 508-13)

June 21 (same locality)

My four remaining trap sets had one gopher this AM. (no 514). All these ^{had} short baculum or much smaller vagina. In general this is the way the female reproductive tract looks

The males appeared to be in breeding condition.



Thaler
1958

Species account

Thomomys monticola monticola

p. 5

June 23

8.5 mi. E, 2.9 mi. N McCloud 3750 ± ft, Siskiyou Co., Calif.

After driving around on dirt roads near the locality for several hours, we stopped at this locality and put out several gopher sets. After waiting about 2 1/2 hrs. we finally took a ♀ gopher of this type. When skinned later she proved to have the relatively short vagina mentioned before. This area was an open, dry meadow surrounded by various conifers.

Thaler
1958

Species Account

Macrotus californicus ^{psl}

July 16. Tumco Mines, 700 ± ft., Imperial Co., Calif.

About 12 of these bats were found in a horizontal mine shaft about 1/4 mile west of where we camped. Of these three were collected (593-595). Antrozous pallidus was also seen here in lesser nos.

Upon investigating the mine shaft at the buildings where we camped we found about 15 more of these bats, but none were collected.

July 18 Mountainer (New Era) Mine, 750 ± ft. 5.5 mi. S, 0.6 mi. E Vidal
Riverside Co., Calif.

This mine is located just south of the San Berdo. - Riverside Co. Line and about 2 mi W of rt. US 95. A recent sign on the road points toward the "New Era" mine. This is apparently the same mine known previously as the Mountainer mine. To reach it we drove on a very poor road toward the mtns (Riverside Mtns.). The road terminates in a steep descent into a narrow canyon. We continued on up this canyon to the mine. Here the workings are the left (south?) side where the old hoist and other equipment remain show recent signs of activity. We entered a tunnel ^(horiz. shaft) on the opposite wall of the canyon, about 15 feet above the floor of the dry stream bed. About 30 ~~to~~ 50 feet inside a "chimney" extends up from the shaft. Here we obtained several Macrotus californicus as well as Antrozous and Eptesicus. Just beyond a shaft descends to the lower levels of the mine. Al Beck took all of the Macrotus we took here.

Heuler
1958

Species Account

July

Macrotus californicus

p. 2.

July 18 (cont.)

Later we went farther west to a mine (Locality: Mine, 1040±ft. 5.8 mi. S, 0.3 mi. E Vidal, Riverside Co., Calif.) We proceeded up the canyon until it swung to the left (south?) and then up and over a saddle and down into a relative wide (perhaps 1/4 mile) valley. This is on the upper part of the canyon we had just left. The mine is on the south side of the valley about 50 yards above the stream bed. This one was loaded with bats of this species. There were only a few, interconnecting horizontal shafts with some bats in them. The majority were in great clusters in an area where a wide vein of ore had been removed. The upper end of this sloping shaft was almost blocked by ~~fallen~~ rubble and a cave-in of the roof. This shaft ends in a deep vertical shaft that offered no means of entrance. Many bats were seen flying in this shaft. I got ~~at~~ about 40 bats from here of which 21 were later put up. (623-643) Beck collected about ~~one~~ 75 more. There were at least 1500 bats of this species here. In several places their favorite roosts were marked by great piles of guano.

July 19.

Upon returning to the Mountaineer (New Era) Mine we found none of this species. At the second mine, the one to the west we saw only about 150 of this species and Beck secured another 40.

Therrell
1958

Species account.

Antrozous pallidus

July 14

Vallecito Stage Station, San Diego Co., Calif.

At Buck took several of these night roosting in the stage station bldg. I plan to put several of these up. (nos 533-534)

July 15

Caught another of these bats while it was night roosting in the stage building about 12:30 (actually July 16, 1958) I froze it and prepared it later (557)

July 16

Tumco Mines, 700 ± ft., Imperial Co., Calif.

Several bats of this kind were seen in a horizontal mine shaft about 1/4 mi. W of where we were camped, along the north side of the valley. One of these was collected (596) while at least 3 others escaped. Macrotes californicus were also seen in the same shaft.

July 18.

Mountaineer (New Era) Mine, 750 ± ft., 5.5 mi. S, 0.6 mi. E of La Brea, Riverside Co., Calif.

Two or three bats of this species were seen roosting in the horizontal shaft on the north side of the canyon at this mine. None were collected, however. (for further details see sp. acc. Macrotes californicus of this date and local.)

Kaibler
1958

Species Account.

Pipistrellus hesperus.

p. 91.

July 14 Agua Caliente Hot Springs, San Diego Co., Calif.

Al Beck and I spent about an hour ~~around~~ from 8 to 9 P.M. netting these bats as they came in to drink over these pools here. I was successful only 11 times but 4 escaped after their initial capture. Al did somewhat better. There were a good number of bats, ^{I saw} perhaps 70 bats. All of the 17 we caught were lactating females, Al said. Three subsequently died and were prepared as specimens (535-537).

July 15

We continued our netting activities over the open water here again this evening. I worked over a very small pool, that had been cemented in to serve as a bath. (Beck worked in the larger swimming pool nearer the main buildings. Together we got about 55 of this species as well as several other bats. I ^{saved} prepared the crippled and dead (584-91). These were frozen and prepared later. Although I ~~was~~ didn't always identify correctly the bats as I caught them I think that the other species were caught mainly later in the evening after 8:30 or so.

July 16. Tumaco Mines, 7000 ft., Imperial Co., Calif.

succeeded in shooting one of these bats that was night-roosting in the old corrugated iron building on the north side of the valley here, in which we camped.

Thaler
1958

Species Account.

Pipistrellus hesperus

pg. 2.

July 16 (cont)

~~Earlier~~ This was too badly shot up to attempt to skin. Earlier I had unsuccessfully shot at a few bats just outside the building as they started flying in the early dusk. Probably most of these were also of this species.

July 17.

Al Beck picked three of this species while he was examining some of the surrounding mine shafts this morning (602-4). These were frozen and prep. later.

Thacher
1958

Species Account.

Eptesicus fuscus

July 14

Agua Caliente Hot Spgs., 1400 ± ft., San Diego Co., Calif.

As we were leaving this place after netting bats a bat of kind flew into the car and was captured. I killed it the following day and prepared it (538)

July 15

Vallecito Stage Station, 1500 ± ft., San Diego Co., Calif.

One of this species was taken while night-roosting in the stage station, at about midnight. I prepared it later & after it had been frozen. (558)

July 17.

Tumco Mines, 700 ± ft., Imperial Co., Calif.

This morning Al Beck found a colony of females of this species roosting in a nearby mine shaft. All told he estimated that there were about 35 bats in the colony. He was able to secure about 20 of which I took 7 as specimens (597-601, 605-606). He banded and released the remainder. None of the seven had embryos, one showed 2 possible placental scars, and five ~~were~~ had either recently ceased lactating or still were.

July 18.

Mountaineer (New Era) Mine, 750 ± ft., 5.5 mi. S, 0.6 mi. E Vidal, Riverside Co., Calif.

One of this species was secured in the horizontal shaft on the north side of the canyon at this mine. Several others were seen in the shaft along with Antrozous and Macrotus. (for further details see sp. acc. of Macrotus californicus for this date and local.)

Haeder
1958

Species account

Myotis californicus

July 14

Aguas Calientes Hot Spgs., 1400 ± ft., San Diego Co., Calif.

We netted bats over some small pools here. (see sp. acc. for Vipistrellus hesperus) I took one of these but released it after Beck banded it.

July 15

We again netted bats over these same pools. I took two of these. (553, 592). Although I'm not positive I think these two were taken only after the "sips" had been flying for sometime.

July 15

Vallecito Stage Station, 1500 ± ft., San Diego Co., Calif.

While checking the stage station for night-roosting bats a number of these were collected (561-566). These were prepared later from frozen material. A total of eight were taken as follows 9:30-11 2 (both males), 11-midnight ⁴ ~~one~~, midnight to 12:30 one (actually on July 16.); 12:30-1 one. The other two were released.

Thresher
1958

Species account.

Myotis velifer

July 18 Mountain (New Era) Mine, 750± ft., 5.5 mi. S, 0.6 mi. E Vidal, Riverside Co., Calif.

At this mine (see journal and sp. acc. of Macrotus californicus of this date and local for further information) only a few of this species were seen in the upper levels of the mine and then they were noted only in flight not roosting. However at the lower levels, the third and fourth they were seen in greater numbers. In one or two places fair sized clusters (50±) were seen but were inaccessible. On the fifth or lowest level these bats were extremely abundant. Many large clusters, several hundred or more, were seen. Beck and I collected about ~~150~~ 50 with no trouble. I ~~put~~ later put up 24 (645-668) of these.

July 19.

On the following day we found that there were fewer of these bats to be found. Those that were seen were in ~~areas~~ places that did not permit easy collecting.

Thaer
1958

Species Account

Myotis volans

June 19. Mt. Shasta State Fish Hatchery, 3440 ± ft, Siskiyou Co., Calif. (T. 40N, R. 4W sec 13)

I shot a female with a very large embryo. It was completely formed and must have been nearly ready for birth, judging from its size.

This was the only bat I had a chance to shoot at, only two others having been seen. The cooler temperatures this evening seem to have kept down most of the bat activity. Others had had good success in the same place on evenings prior to tonight.

The area is an open field adjoining a small pond on the SW corner of the hatchery property. The area is surrounded on the W and S by forest. Before tonight several Eptesicus and one Lasiurus had been shot here.

Thaler
1958

Species Account.

Corynorhina rafinesquii

July 14

Vallecito Stage Station, San Diego Co., Calif.

Al Beck caught a couple of these night roosting in the stage station. One was injured so I froze it and prep. it later (556).

July 15

Took two more of these ~~well~~ while night roosting in the stage ~~station~~ station this evening. (559-60) One was taken about midnight and the other at 12:30 (July 16) along with two more that were banded and released. After 12:30 Beck took and released another of this species.

Agua Caliente Hot Spgs., 1400 ± ft., San Diego Co., Calif.

I got two of these ~~well~~ while netting bats as they came into drink at a small pool here. These frozen and prepared later (581-582)

Thaler

1958

Species Account

Citellus buckleyi

June 15 Mt. Shasta State Fish Hatchery, 3440 ± ft. Siskiyou Co. Calif.?

I put up a specimen of this species caught by
Ray Hill, ~~son~~ of the superintendent. He caught the
animal around one of the bldgs. at the hatchery.

Thaler
1958

Species account.

Eutamias amoenus

June 21

Wagon Camp, 5800 ± ft, 5.8 mi S, 1.0 mi W Mt. Shasta (summit)
Siskiyou Co., Calif. (T. 40 N R. 3 W sec. 8).

I caught one ♀ in a area of second growth conifer
and a little brush, quite open, adjoining the meadow.

Thaler

1958

Species Account

Perognathus baileyi

July 16.

Tunco Mines, 700 ± ft., Imperial Co., Calif.

One specimen taken when trapline (see sp. acc. for Perognathus spinatus for further details) was run at 9:30 P.M. (549)

July 17.

another specimen taken this A.M. in the same trapline as above. This frozen and prep. later (608)

July 18.

a third specimen taken this A.M. in same trapline. Prep. later (609).

Thaler
1958

Species Account

Perognathus fallax

July 15

Mason Valley, 5.3 mi. W Vallecito Stage Station San
Diego Co. Calif.

1

I took two there in snap traps on the valley floor last night. Here the primary vegetation is some bush and grass.

The vegetation of this valley is strikingly different from that in the valley in which the stage station is located.

July 16.

Another of these was taken this A.M. in the same trap line as those mentioned above. It was frozen and prepared later. (579)

dec
1958

Species Account

Perognathus formosus

July 16

Vallecito Stage Station, 1500± ft., San Diego Co., Calif

Five specimens were taken during the night in
the same trapline as described for Ripidomys
(see sp. acc. of R. merriami for further details.)
merriami (# 573-574). These 5 were frozen and
prepared later. (567-571)

Thacher
1958

Species Account.

Perognathus penicillatus

July 16

1.4 mi. E, 0.3 mi. S Vallecito Stage Station, 1350 \pm ft. ^{San Diego} Co., Calif.

One specimen (541) taken in the trapline described
for Dipodomys merriami (542).

Kaehler
1958

Species Account.

Perognathus spinatus

July 16 Vallecito Stage Station, 1500 ± ft., San Diego Co., Calif.

One specimen (572) was taken in the trapline described under the species account of Dipodomys merriami (573-574).

July 16. Tumco Mines, 700 ± ft., Imperial Co., Calif.

I had a trapline set out from the old abandoned far buildings on the north side of the valley following down along the wash and out onto the flats of the valley floor. The valley floor is cut by fairly deep gullies. Upon checking 9:30 PM checked my traps and took 4 of these mice. ~~There~~ We also noted much activity of small animals in the old corrugated iron building in which we were sleeping and set several traps in here by 11 P.M. one of these mice had been caught in the building. (544-48)

July 17.

Upon checking the same trapline, mentioned above, the following morning I had four more of this species. The traps in the building yielded another. There were frozen and prepared later (607, 609-613).

Thaeler

1958

Species account.

Dipodomys merriami pg. 1

July 15 Mason Valley, 5.3 mi. W Vallecito Stage Station,
San Diego Co., Calif.

Took 4 of these in snap traps last night. They are much grayer than those I took two years ago near Agua Caliente. There is a very marked vegetational difference between these two places also. (see journal July 15)

July 16.

Had two more of these here this A.M. One of them is very markedly different in color from the other five, much paler. These were frozen on dry ice to be put up later as we are moving on today.

July 16

Vallecito Stage Station, 1500± ft., San Diego Co., Calif

I had two of these dips this am. (573-574) in a trapline set on the valley floor across the road from the stage station. The desert floor here is quite rocky and cut by numerous dry washes. The vegetation is sparse, a little ground cover. It is composed mainly of cholla, cholla, barrel cactus, etc. These specimens frozen and prepared later.

~~3.2 mi. W Vallecito Stage Station~~

1.4 mi. E 0.3 mi. S Vallecito Stage Station, 1350± ft. San Diego Co., Calif.

Took one dip in a trapline that ran from the road across the desert to the large dry wash along the southwestern side of the valley. The soil here was finer, less rocky than that mentioned above.

July 17

Tumaco Mines, 700± ft., Imperial Co., Calif.

Thaler.

1958

Species Account.

Dipodomys merriami

Fig. 2

(July 17 cont)

One specimen was taken on the valley floor here, in a rather deeply incised wash. The soil on the flat was fairly fine (v. little gravel) but not loose sand.

Kaelin

1958

Species Account

Peromyscus crinitus

July 16. Tumco Mines, 700± ft., Imperial Co., Calif.

Three of these mice were taken in the trapline (see species acc. of Perognathus spinatus for further details) when line checked at 9:30 P.M. (550-552)

July 17.

Three more of these were taken from the trapline and four from the old corrugated iron building in which we were staying. Only three were saved - frozen and put up later. (615-617)

July 18

Two more were taken from the same trapline this A.M.

Chadler 1958

Species account.

Peromyscus eremicus

July 16 1.4 mi. E, 0.3 mi. S Vallecito Stage Station, 13505 ft. San Diego Co., Calif. 7

One specimen ⁽⁵⁴³⁾ taken in same trapline described for
Ripodomys merriami (542).

Thaler
1958

Species account.

Neotoma lepida

July 15 32 mi. W Vallecito stage station, San Diego Co. Cal.

Took one of these ~~last~~ in one of 7 schyler's set among the large boulders at the west end of ~~mesa~~ Vallecito valley. The traps were baited with dates.

July 16

Had a second female in the same locality this A.M.

July 16.

Tumco Mines, 7000 ± ft., Imperial Co.

A check of the trapline mentioned w.r. + Perognathus
(see sp. acc. of P. spinatus for further details)
spinatus, also yield one of this species. (553)

July 17

Another of from the same trapline. (618). This frozen and prepared later.

July 18

A third from the same trapline (622). All three of these have been taken in traps along the edge of the dry wash, not far (435 yards max.) from the base of a rocky slope.

Thaler
1958

Species account

Microtus californicus

July 16 Vallecito Stage Station, 5500± ft., San Diego Co., Calif.

This morning I had one of these, a female, in one of the twenty-five traps I set in a marshy area behind the stage station. There is an area of several acres of marshy area here which is covered, even in mid-summer, by green vegetation - mostly various grasses. *Microtus* sign is not overly abundant.

Sept. 18 1.0 mi. N, 2.0 mi. E Mantipogon (saltmarsh), Contra Costa Co., Calif.

This A.M. I had four mice. (None yesterday). *Microtus* sign is virtually non-existent in the areas of the marsh I have looked at. I had over 200 traps in *Salicornia* and salt grass (*Pasticalis*). The *Salicornia* here is not too high and often there is a layer of matted vegetation about an inch or two (even 3) above the ground. I didn't see any *Salicornia* cuttings.

Sept. 20

One *Microtus* this A.M. After hunting around further in the marsh I began to find some *Microtus* sign, both feces and cuttings in areas where there was a covering of tall ~~rushes~~ ^{rushes}. Under these there ~~is~~ ^{is} some a little grass (not *Pasticalis*) and *Salicornia*. The best sign was found in areas where it was v. moist, even areas flooded at high tide. I moved most of my traps into these areas.

Sept. 21.

I had two *Microtus* this A.M. along with lots of toads and a couple of crayfish.

Thaler
1958

Species Account.

Microtus californicus

Sept. 22 1.0 mi. N, 2.0 mi. E Martinez, Contra Costa Co., Calif.

Again ~~two~~ Microtus. Although there are cuttings of grass I have not seen any of Salicornia.

Sept. 23

Two more Microtus. I pull my traps.

Dec. 21 San Pablo Creek (salt marsh), Richmond, Contra Costa Co., Calif.

Before setting traps I walked around the marsh. Salicornia is the principal vegetation in the lower areas, higher up grass takes over. The Salicornia here is much higher here and lacks the heavy matted layer that one finds at Martinez. Microtus sign was abundant. Everywhere I kept finding piles of cut Salicornia and fresh droppings. Under every board one would find great quantities of cuttings. Before dark I got out about 50 traps. A quick survey of the line as I returned from the farthest trap produced six mice.

Dec. 22

This A.M. I had another 12 mice and one Sorex ornatus in this line. The line runs along a natural ditch in the marsh. I set out another 100 traps and had 6 mice as I returned along the line. George Fidler had 5 mice from the more grassy areas. All of the ones he had seemed quite young. I discarded two ♀♀ and one ♂ of under 30 grams.

Thaler
1958

Species account.

Microtus californicus

Dec. 23 San Pablo Creek (Saltmarsh), Richmond, Contra Costa Co., Calif.

This A.M. I had 25 mice. After checking my traps I decided I had enough so I pulled the line, and picked up another 8 mice. George Fisher had another 12, again ^{all} mostly all young individuals. I discarded 4 ♀♀ and 3 ♂♂ under thirty years.

While picking up my traps I realized for the first time that the fifty traps along the ditch were almost all in an area that was regularly flooded by high tides. As I picked them up all but half a dozen were in water. Even with the water covering much of the marsh I never saw any Microtus. They must either succeed in hiding in the Salicornia & much of which is still above water or live under water as one approaches.

We released a young Microtus from one of George's live traps. She seemed quite at home climbing in the Salicornia above the level of the water. She managed to elude us in about 40 sec.

Thaeler
1956

Species account.

Microtus longicaudus

June 21 Wagon Camp, 5.8 mi S, 1.0 mi W Mt. Shasta (summit) 5800± ft.
Fiskiyou Co. Calif. (T. 40N, R. 3W sect. 8)

I took three of this species during the night
(nos. 516-518). These were caught in a rather moist
situation, covered with short grass and a few ~~fallen~~
logs near a small stream.

Thaeler, C. S., Jr.

1959

Catalogue #818-854

Journal

calif.

Species Acc't.

Thomomys only

Catalog

C.S. Thacher Jr.

P. 1

Feb. 4 2 mi. W Sacramento, Yolo Co., Calif.

818 ♂ Testes 30 mm.

Urocyon cinereoargenteus(coll. by Seth J. Kirkwood)
1004-387-144-81-77 4902

Apr. 3

Herlong 7120 ± ft., Lassen Co., Calif.

819 ♂ epid. Testes 10 mm.

Peromyscus maniculatus

158-68-20-17

wt. 20.6 gms.

820 ♀ 5 emb. 5 mm.

162-73-21-18

wt. 21.6 gms.

Rowland Ranch, 3.1 mi S 1.0 mi E Doyle 4350', Lassen Co., Calif.

821 ♂ Testes 24 mm. epid. +

Thomomys monticola

224-70-27-10-9 (N) (C)

wt. 146.2

822 ♂ Testes 20 mm. epid. +

220-70-27-9-8 (N) (C)

wt. 112.7

823 ♀ no emb.

214-69-30-10-8 (N) (C)

wt. 98.7

824 ♀ no emb.

208-67-27-11-8 (N) (C)

wt. 93.6

825 ♀ no emb.

215-68-27-9-8 (N) (C)

wt. 97.2

826 ♀ no emb.

209-65-25-10-8 (N) (C)

wt. 95.1

827 ♀ no emb.

204-70-27-10-9 (N) (C)

wt. 89.8

3.4 mi. N, 2.6 mi. W, Doyle 4250 ± ft., Lassen Co., Calif.

828 ♂ Testes 19 mm. epid. +

Thomomys townsendi

269-85-36-9-5 (N) (C)

wt. 253.6

Apr. 4

Rowland Ranch, 3.1 mi S, 1.0 mi. E Doyle 4350 ±, Lassen Co., Calif.

829 ♂ Testes 19 mm. epid. +

Thomomys monticola

218-66-27-11-8 (N) (C)

wt. 116.5 gms.

830 ♀ no emb.

220-70-28-10-8 (N) (C)

wt. 110.5 gms.

831 ♀ no emb.

213-71-27-11-10 (N) (C)

wt. 110.4 gms.

832 ♀ no emb.

212-73-28-10-8 (N) (C)

wt. 95.8 gms.

833 ♀ no emb.

206-61-27-10-8 (N) (C)

wt. 88.5 gms.

2.4 mi. S, 1.6 mi. W Herlong, 4080 ± ft., Lassen Co., Calif.

834 ♂ Testes 16 mm. epid. +

Thomomys

224-72-30-7-4 (N) (C)

wt. 117.8 gms.

2.2 mi. S, 0.8 mi. W Herlong 4140 ± ft., Lassen Co., Calif.

835 ♂ Testes 19 mm. epid. +

Thomomys

240-80-32-7-4 (N) (C)

wt. 161.7 gms.

836 ♀ no emb.

217-72-31-7-4 (N) (C)

wt. 104.3 gms.

837 ♂ Testes 19 mm. epid. +

240-99-32-7-4 (N) (C)

wt. 136.2 gms.

Thaler
1959

Catalogue

P. 2

Apr. 5 0.4 mi S, 1.6 mi W Herlong, 4080±ft., Lassen Co., Calif.

- 838 ♀ ^{no emb.} *Thomomys bottae* 210-65-29-7-4^{(N)(C)} 111.5 gms.
839 ♀ ^{no emb.} " " 207-60-29-7-4 106.9 gms.

(handdune)

2.2 mi S, 0.8 mi W Herlong, 4140±ft., Lassen Co., Calif

- 840 ♂ ^{testis 15 mm.} epid. + *Thomomys bottae* 229-70-32-7-4^{(N)(C)} 139.0 gms.
841 ♂ ^{testis 17 mm.} epid. + " " 221-64-31-7-4^{(N)(C)} 127.4 gms.
842 ♂ ^{testis 16 mm.} epid. + " " 227-79-31-7-5^{(N)(C)} 126.7 gms.
843 ♀ ^{no emb.} " " 203-62-27-7-3^{(N)(C)} 86.8 gms.
844 ♀ ^{no emb.} " " 198-62-28-7-4^{(N)(C)} 70.4 gms.

1.3 mi W Herlong, 4060±ft., Lassen Co., Calif.

- 845 ♂ ^{testis 14 mm.} epid. + *Thomomys bottae* 225-71-31-7-4^{(N)(C)} 140.9 gms.

0.3 mi S, 3.0 mi W Herlong 4030±ft., Lassen Co., Calif.

- 846 ♀ ^{3 emb. 7 mm. C-R} *Thomomys townsendi* 248-73-35-8-5^{(N)(C)} 207.1 gms.

0.7 mi S, 3.7 mi W Herlong, 4020±ft., Lassen Co., Calif

- 847 ♂ ^{testis 16 mm.} epid. + *Thomomys townsendi* 170-85-36-8-5^{(N)(C)} 244.0 gms.

1.8 mi S, 1.6 mi W Herlong 4060±ft., Lassen Co., Calif.

- 848 ♂ ^{testis 19 mm.} epid. + *Thomomys townsendi* 283-88-37-8-5^{(N)(C)} 289.6 gms.

- 849 ♂ ^{testis 16 mm.} epid. + " " 276-80-36-10-5^{(N)(C)} 269.0 gms.

Apr. 4 Rowland Ranch, 3.0 mi. S Doyle, 4300±ft., Lassen Co., Calif.

- 850 ♂ ^{testis 13 mm.} epid. + ^{paramyrmecine} *Dipodomys ordii* 251-123-46-16-11^{(N)(C)} 89.2 gms.

- 851 ♀ ^{no emb.} *Reithrodontomys megalotis* 146-72-18-15 11.2 gms.

- 852 ♀ ^{no emb.} " " 134-66-17-14 9.1 gms.

- 853 ♂ ^{testis 10 mm.} epid. + ? *Peromyscus maniculatus* 168-71-21-17 22.8 gms.

- 854 ♂ ^{testis 11 mm.} epid. + ? " " 164-69-20-18 21.9 gms.

- 855 ♂ ^{testis 9 mm.} epid. + ? " " 158-70-20-18 21.4 gms.

- 856 ♂ ^{testis 9 mm.} epid. + ? " " 164-73-20-18 21.2 gms.

- 857 ♂ ^{testis 9 mm.} epid. + ? " " 171-75-20-18 19.5 gms.

- 858 ♀ ^{no emb.} 3 large 4 small scars. " all L. Horn. " 165-70-19-12 22.2 gms.

Thaler
1959

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P. 3

- Mar. 28 Strawberry Canyon, 650± ft. Berkeley, Alameda Co., Calif. A.C. Banta
859 ♀ 5 scars ^{no emb. last} *Neotoma fuscipes* 456-225-44-33 334.4 gms.
- May 10 2 mi E Calaveras Dam, Alameda Co., Calif.
pt. cranium only 860 ? *Neotoma cinereus* (pup taken from ^{golden} eagle's nest by John D. McCarty Jr.)
- June 4 Locality unknown, Rec'd from O.P. Pearson Killed on this date.
Post. Last. 5 scars.
861 ♀ "Chinese Hamster" 132-31-15-16 27.1 gms.
862 ♀ " " 100-22-15-13 13.1 gms. Born May 17, 1959 of #861
863 ♀ " " 99-22-15-13 12.3 gms. "
- June 18 250± ft. Canal Hollow, Alameda Co., Calif.
864 ♀ *Microtus californicus* 164-51-22-15 41.1 gms. Caught by James Anderson caught Apr. 29, 1959. Killed June 18, 1959. 30 days ± 10 days at capture.
- July 16 Dillon Beach, Marin Co., Calif.
skull only 865 sex? *Phoca vitulina* found dead, washed up on beach.
- July 23 Dillon Beach, Marin Co., Calif.
skel. only 866 ♀ *Puffinus* found dead, washed up on beach.
- July 28 Willow Creek, 2.0 mi. S Duncan Mills, 100 ft. ±, Sonoma Co., Calif.
no emb. no scars. 867 ♀ *Microtus californicus* 180-57-21-16 wt. 50.4 gms.
- July 29 Dillon Beach, Marin Co., Calif.
no foot. 868 ♀ *Uria aalga* washed up on beach.
- Aug 19 Locality Unknown, young of C.S.T. 861 Rec'd from O.P. Pearson
869 ♀ Chinese Hamster 117-28-16-15 wt. 23.7 gms. Born: May 17, 1959
Killed: July 3, 1959
870 ♂ testes 17 mm. epid. + " 133-34-16-17 wt. 38.6 gms. Born: May 17, 1959
Killed: Aug 17, 1959

Thaeler
1959

Catalogue p. 4

Oct. 2

1.4 mi. E, 1.1 mi. S Hobart Mills, 5700±ft. (sagebrush)

Nevada Co., Calif.

871

♂ ^{Testes 7 mm epid.} *Thomomys monticola*

212-71-28-8-6 ^{(N)(C)} 76.8 gms.

Oct. 3

0.5 mi. E, 0.3 mi. N Boca, Nevada Co., Calif. 5750±ft.

872

♂ ^{Testes 5 mm epid.} *Thomomys monticola*

218-74-28-10-7 ^{(N)(C)} 98.4 gms.

1.2 mi. E, 1.6 mi. N Calpine, 4910±ft., Sierra Co., Calif.

873

♂ ^{Testes 7 mm epid.} *Thomomys monticola*

195-61-25-10-7 ^{(N)(C)} 70.0 gms.

874

♀ no emb.

" "

191-63-28-9-7 ^{(N)(C)} 67.7 gms.

3.6 mi. N, 1.8 mi. E Calpine, 4950±ft. Plumas Co., Calif.

Testes 1 mm.

875

♂ ^{Skull single eye} *Dendroscopus albicinctus*

66.4 gms.

Oct. 4

3.5 mi. N, 1.8 mi. E Calpine, 4930±ft., Plumas Co., Calif.

876

♂ ^{Testes 6 mm epid.} *Thomomys battae*

206-66-27-6-3 ^{(N)(C)} 104.0 gms.

3.5 mi. N, 1.9 mi. E Calpine 4910±ft., Plumas Co., Calif.

877

♀ no emb. *Thomomys monticola*

202-74-26-10-7 ^{(N)(C)} 72.1 gms.

1.2 mi. E, 1.6 mi. N Calpine 4910±ft. Sierra Co., Calif.

878

♂ ^{Testes 5 mm epid.} *Thomomys battae*

204-68-28-6-3 ^{(N)(C)} 93.5 gms.

879

♀ no emb. *Thomomys monticola*

196-67-25-10-6 ^{(N)(C)} 80.0 gms.

880

♀ no emb. *Thomomys monticola*

200-70-26-10-8 ^{(N)(C)} 83.9 gms.

2.2 mi. N, 0.9 mi. E Calpine, 4950±ft., Sierra Co., Calif.

881

♂ ^{Testes 11 mm epid.} *Thomomys monticola*

237-73-30-12-8 ^{(N)(C)}

124.2 gms.

882

♂ ^{Testes 5 mm epid.} "

"

"

198-66-27-10-7 ^{(N)(C)}

80.6 gms.

883

♀ no emb.

"

"

210-65-27-11-7 ^{(N)(C)}

101.4 gms.

884

♀ no emb.

"

"

211-69-28-10-7 ^{(N)(C)}

89.0 gms.

Thaelle
1959

Journal
P. 1

Apr. 2

Berkeley to Herlong, Lassen Co., Calif

Left Berkeley at 8:15 AM \bar{c} family in tow for Herlong. We came up by way of Reno arriving here at the Corleys by 3:30 PM. The trip was without unusual event. A golden eagle (?) was seen just W of Auburn. ~~Most~~ Much of winter snowfall had melted. Only above 5500' on the W side was the cover more than in the most protected areas.

After arriving at Herlong John Michael Corley took me to the ~~Roland~~ Ranch just SW of Doyle and introduced me to the Roland.

(Mr. Roland) He was more than willing to let me trap gophers on this place and showed me an area in a pasture near the house where there was much indication of gopher activity. He remarked ~~that the~~ about the presence of a large light colored gopher to be found around Honey Lake. I took this to mean he had not heard of them ^{from} much south of there. We were able to get about 20 traps out before dark.

After supper I put out 45 museum specials on the sage brush flat just ^{on the edge} west of Herlong.

Apr. 3.

Herlong, Lassen Co., Calif.

Picked up my trapline near town this AM and had two Peromyscus maniculatus. After breakfast I drove ~~back~~ down to the Rowland ranch near Doyle. This is 2.2 mi. by road from where this road turns right

Thaler
1959

Journal
p. 2

Apr 3 (cont) Herlang, Lassen Co., Calif

from US 395 just before the underpass under the W. P. railroad tracks. After checking and resetting my traps I secured permission from Mr. Rowland to trap on his land near the stream. I drove back to US 395 and south along it to a point opposite the Rowland Ranch Bldg's. This area next (West) to the road is low and somewhat marshy, covered by grass and low trees. Beyond the higher ground grass covered but sparsely so & few scattered bushes. ~~It is~~ grazed. After an hour's search I'd seen no gopher sign. I set out about 50 museum specials and returned to Herlang. On the way I saw some gopher workings just W of US 395, north of where it crosses Long Valley Creek. I stopped and put out 3 sets, one ~~at~~ within 2 ft of the road.

After lunch I drove around on some dirt roads just SE of Herlang. The country was flat and covered with heavy stands of Sagebrush. Although I looked for over an hour I was able to see no signs of gopher workings either along the roads as I drove or in the sagebrush on short walks I took away from the road. On the way back to Herlang I noticed some mounds on a bare sand dune a quarter of a mile away. Subsequent investigation showed that these were gopher workings. I put out 8 sets. On the way back to Herlang I set out two sets along the road (0.4 mi. S, 1.6 mi. W Herlang). In the late afternoon I rechecked my

Thaler
1959

Journal
p. 3

Apr 3 (cont) Herlang, Lassen Co., Calif.

traps at Rowlands Ranch and the sets along the road N of Doyle. The latter yielded one Thomomys townsendii from the set just off the paving of the road. I returned to Herlang after dark.

Apr. 4

Herlang, Lassen Co., Calif.

I returned to Rowlands Ranch this AM \approx J. M. Corley and picked up my gopher sets and trapline. The trapline yielded a Dipodomys panamintinus, 2 Reithrodontomys megalotis and 6 Peromyscus maniculatus. I checked the traps on the sand dunes near Herlang and took several Thomomys bottae! Also the two sets along the road near Herlang yielded another T. bottae. I spent the remainder of the AM skinning. In the P.M. Mariano and I went out set more traps. I had previously seen ~~many~~ large gopher mounds along the road from Herlang S to US 395, ~~in~~ fields along the west side of the Long Valley Creek. Since I could ^{not} find ~~pe~~ people at home at the farm nearby, it being Sat. afternoon I contented myself with making some sets adjacent to the fields, along the road right-of-way. I got out 5 sets in these workings which must be T. townsendii from the size of the mounds and the tunnels. I set out two more sets along the road north of here where I had secured the T. bottae this AM. Then I headed W on the road that runs E-W between Herlang and US 395. Just to the W of the junct. of E-W and N-S roads to Herlang

Thaler
1959

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p. 4

Apr. 4 (cont) Herlang, Lassen Co., Calif.

I made a set on the N side of the road. I then drove W across the Long Valley Creek and made 3 sets just across on the W side of the stream. On the way back to Herlang I made two more sets on the S side of the road before reaching the previously mentioned junction.

Apr. 5 Herlang to Berkeley, Calif

I checked my traps this A.M. and took them up, accompanied by Mrs. Corley Luckely & had gophers at all the places I had set out traps except one place along the road W of Herlang. It took remainder of the morning to get the family packed and off. Left Herlang about 12:45 PM. Stopped in Reno, Nev. for dry ice to freeze those specimens not prepared at Herlang. Arrived at Berkeley @ 5:30 PM.

Thaeler
1959

Journal
P. 5

Oct. 2

Berkeley to Sage Hen Creek, Nevada Co., Calif.

Left Berkeley with Dr. Benson and Bill Maher at 8:15 AM. Dr. Benson is taking his Mammalogy class on a field trip. We arrived at Sage Hen Creek about 2:00 PM. We stopped along Rt. 89 just beyond Prosser Creek and I set out 4 gopher sets. I was able to borrow a University ~~there~~ ^{the kindness of Dr. P. R. Needham} vehicle, and drove to Boca Reservoir, Nevada Co. I set out 6 gopher sets on a level area above and east of the dam. On the way back I set out 8 sets 1.5 mi. (approx.) by road from the dam to Rt. 89. Checked my sets along Rt. 89 and got one Thomomys monticola.

Oct. 2.

Sage Hen Creek, Nevada Co., Calif.

Up early this AM and off to ~~check~~ ^{take up} T. monticola gopher sets over near Boca Reservoir. Got just one north east of Boca. Back to Sage Hen for breakfast. After breakfast Dick Banks and I drove north to Sierraville and hence NW and N along the west side of the valley. At Slatley we took the right fork and continued north up the valley. We stopped at a point 1.5 mi E. of Calpine and wandered around looking for gopher signs on the left (W side) of the road. This area is covered sparsely by sage brush and grass. It appears overgrazed. Saw no signs of gophers but did see diggings of moles. A mile and a half north we saw some gopher mounds.

Thoele
1954

Journal
pg. 6

Oct. 3 (cont) Sagehen Creek to Sierra Valley, Sierra Co., Calif

from the road as we drove by. Put out two sets on the E side of the road within a few feet of the road and 8 or 10 more on the other side. We continued north, and NE the road swings NE just before crossing the line into Plumas Co. About 0.6 mi. NE (by road) of the Co. line we turned off on a dirt road to the West. Less than $\frac{1}{2}$ mi from the main road we saw an open meadow where there were some gopher signs and set out about 5 sets.

I walked back down to the dry stream bed and found more gopher signs right along the stream bed and put out 3 sets. This area is slightly above the level of the Sierra valley proper and in the valley that comes in from the west. Most of the area is covered \bar{c} sagebrush but some areas of grass are scattered thru the sage. In one of these we made our first gopher sets. There

is a scattering of Ponderosa pine in the sage. A 45 min. wash on the floor of the valley crosses the main road from this locality, situated

We turned back south along the same road and

drove up 0.5 mi. S (by road) of the Co. line back in Sierra Co. We found a dirt road that ran off to the E. We drove back along it for about $\frac{1}{2}$ mile thru Pine forest and stopped in a meadow where we found gopher workings. We set out about 8 sets here. The meadow grass is quite green in contrast to the valley. The area is much overgrazed by sheep. We stopped at our first sets and found two T. monticola in our traps on the W side of

Thatcher
1959

Journal.
p. 7

Oct. 3 (cont) Sagehen Creek to Sierra Valley, Sierra Co., Calif.
the road. We then continued back to Sage Hen Creek arriving
about 4:00 PM.

Oct. 4 Sagehen Creek to Sierra Valley and to Berkeley, Calif.
Up early this AM to pick up traps in the Sierra
Valley. I got to the first locality along the road
(3.2 mi. E, 1.6 mi. N Calpine) and found one T. bottae from the
sets on the E side of road. Got 2 more T. monticola on the
other side of the road. Continued on to the locality half a
mile off the main road (2.2 mi. N, 0.9 mi. E Calpine) and
got 4 T. monticola. The third locality (3.5 mi. N, 1.8 mi. E
Calpine, Plumas Co.) yielded one T. bottae from the
meadow in the sagebrush and a T. monticola from
lower down in the stream bottom. Returned to
Sagehen Creek. After lunch returned to Berkeley
with Johnny and Lorraine Barnes. Home by 5:45 PM.

Thaler

1959

Species Account

Thomomys battae

p. 1

Apr. 4

2.2 mi. S, 0.8 mi. W Herlong (sand dune), 4140 ± ft., Lassen Co., Calif

This morning I held three gophers (835-837) from the traps I'd set here last night. The sand dune here is on the east side of ~~the~~ Long Valley Creek. There is almost no vegetation on the dune except some low, broad-leaved plant that is found for the first 10-15 ft up from the base of the dune. The mounds that mark the gophers' activity are very conspicuous on the bare sand. As one digs beneath the sand it is quite moist just an inch or so below the surface. I kept uncovering parts of plants under the sand as I dug in it making my sets. Apparently the sand has drifted over this vegetation rather recently. I suppose this covered vegetation provides food for the gophers here since some burrow systems are a hundred yards or more from any surface vegetation.

Yesterday, before I found these mouse gopher workings on the dune I had spent an hour or so driving and walking over the sagebrush-covered flats just to the east of here without seeing any gopher mounds.

Apr. 4 0.4 mi. S, 1.6 mi. W Herlong, 4080 ± ft., Lassen Co., Calif

Apr. 4.

at this locality which is along the N-S Road from US 395 to Herlong, just S of the junct. where one turns east to Herlong, I found gopher workings on the west side of the road yesterday.

Thaler
1959

Species Account

Thomomys talpae

p. 2.

Apr. 4 (cont.)

This morning one of my two sets here had a gopher of this species (834). I set several other sets along either side of the road this AM. The soil here is soft and fine, the ground is ~~part~~ ^{thinly} cleared of sagebrush and covered by grass and forbs.

Apr. 5.

This AM I had two more gophers here (838, 839). All three of these have been taken within 10 yards of the road. I haven't seen any sign of gopher workings in adjacent sagebrush.

2.2 mi. S, 0.8 mi. W Herlang (sand dune), 4140 ± ft., Lassen Co., Calif.

Had 5 more gophers here this AM. (840-844). I'm impressed by the way the gophers ~~have~~ have invaded this almost desolate patch of ground, judging by their workings and the numbers I've taken (8) in an area of only a few (5 ±) acres they are really quite common here. Yet in the adjacent flat, sagebrush covered areas they are at best scarce if not totally lacking.

1.3 mi. W Herlang, 4060 ± ft., Lassen Co. Calif.

Yesterday I put out a couple of gopher sets at some workings I found ^{it runs southward it reaches near main highway} along side the road that runs due west from Herlang to U.S. 395. Again the sets were right along the edge of the road, the soil is fine, easy digging, sage brush ~~is~~ ^{is} the adjacent vegetation. This A.M. I had one animal here. (845)

Thaeler
1959

Species Account

1959
B

Oct. 4

Thomomys bottae p. 3.

1.2 mi. E, 1.6 mi. N Calpine, 4910 \pm ft., ^{Sierra} ~~Sierra~~ Co., Calif.

Yesterday Dick Banks and I set some gopher traps here. This morning we had one T. bottae and two T. monticola (also 2 here yesterday). This area is in the Sierra Valley. There is an open cover of sagebrush with grass in between. There are a few pines that come out onto the valley floor from the hills to the west but these stop a hundred and fifty yards from where we trapped. This area was along the road from Lathley to Beckworth and Portola, ^{just north of a dry wash,} The T. bottae was taken in traps set on the east side of the road on the shoulder.

All the T. monticola were taken on the west side of the road. Here the ~~the~~ principal areas where gopher workings were seen and traps set were on slight rises ~~in the~~ of a foot or two. The area where the T. bottae was taken may have been on the somewhat lower ground between such rises but since it was right along the road this distinction can not be made with any accuracy.

I paced off the distance between the place where the nearest T. monticola and the T. bottae were taken. The distance was 50 yards.

3.5 mi. N, 1.8 mi. E Calpine, 4930 \pm ft., Plumas Co., Calif.

We checked traps set here yesterday and had one T. bottae. This area is a little patch of grass in an area of sagebrush.

Thadler
1959

Species Account.

Thomomys battae (M. 4)

Oct. 4 (cont.)

There were scattered pines in the area. One T. monticola was also taken nearby (3.5 mi. N, 1.9 mi E Calpine, 4910 ± ft. Plumas Co., Calif.). The T. battae was taken on a gentle ^(south side) slope of a valley that runs east into the Sierra Valley. The T. monticola was taken along the dry wash at the bottom of this valley. Here the vegetation was similar but the soil was very gravelly.

Kaelin
1954

Species Account.

Thomomys monticola

p. 1

Apr. 3

Rowland Ranch, 3.1 mi. S, 1.0 mi. E Doyle 4350 ft, Lassen Co., Calif.

Last evening I set out about 10 gopher sets in a pasture on the Rowland Ranch. John M. Corley was instrumental in helping me get permission to trap here. This pasture was right across the road and railroad from the main ranch bldgs. (East). The pasture was at present in grass, I assume it had been seeded. The lower part of the pasture was irrigated but I trapped above this. This land is gently sloping to the east, toward the river bottom a mile or so beyond. The area is below the much steeper ^{fast} hills of the Sierras that rise up just a $\frac{1}{4}$ mi to the west. The soil is dark brown and rather silty or loamy, at least it is neither ~~very~~ clay or sand.

Mr. Rowland tells me there are very few gophers below this, ~~nearer~~ the river. Although I spent an hour or so on the bottom land just west of H.S. 395 adjacent to this pasture I could find no gopher sign. There may be gophers to the east of 395 in the sagebrush.

These traps yielded 4 gophers in the AM and 3 more this evening.

Apr. 4

Same local.

I took out 5 more gophers this AM. and pulled out the remainder of my traps. Total catch in this has been 3 ♂♂, 9 ♀♀ in an area of perhaps 3 acres. There are still about gophers here probably almost as many as live taken.

Thaeler
1959

Species Account

Thomomys Monticola

p. 2

Oct. 2.

1.4 mi. E, 1.1 mi. S Hobart Mills, 5700 ± ft (sagebrush) Nevada Co., Calif.

Early this afternoon I had put out three gopher sets here. I had one of this species when I checked traps at about 6:15 PM. This area is in the sagebrush above Prosser Creek. The gopher was taken in soft, fine soil along an overgrown dirt road ~~that~~ just a few yards from the main road (R.D. 89). There are an occasional Ponderosa Pines nearby.

Oct. 3

0.5 mi. E, 0.3 mi N Boca, Nevada Co., Calif.

Yesterday I had put out several gopher sets at this locality. This AM I had one T. Monticola here. This area is sage-brush covered with an occasional widely scattered pine. This locality is just east of the dam at the S end of the Boca Reservoir and about 100' above the dam. The soil is quite rocky.

Oct. 3.

1.2 mi. E, 1.6 mi. N Calpine, 4950 ± ft. Sierra Co., Calif.

Dick Banks and I got out about 8 sets here this AM. When we checked on the way back to Sage Hen Creek and picked up ~~two species of the~~ ¹ of this species. (For further details on this locality see Species Account of T. battae)

Oct. 4 same locality. p. 3

Oct. 4

1.2 mi. E, 1.6 mi. N Calpine, 4950 ± ft. Sierra Co., Calif

I got 2 more specimens here this AM. as well as a T. battae. All of the T. monticola taken here were on the W side of the road and about 100 yards and more back from the road.

2.2 mi. N, 0.9 mi E Calpine, 4950 ± ft., Sierra Co., Calif

I had 4 gophers here this AM. This area is a meadow

Thaler
1959

Species Account.

Thomomys nauticae

p. 3

Oct. 4 (cont) of perhaps 2 or 3 acres surrounded by pines. The grass here is green and v. overgrazed by sheep. The soil is moist, dark and fine. There are a lot of gopher workings here. These animals seem to be relatively common in this meadow.

3.5 mi. N, 1.9 mi. E Calpine, 4910 \pm ft. Plumas Co. Calif.

I got one of this species from the three sets in the dry stream bed here. The soil is v. gravelly since it is composed of stream outwash. (For further details see Species Account, T. bottae, 3.5 mi. W, 1.8 mi. E Calpine 4930 \pm ft., Plumas Co., Calif same date p. 3 and 4.)

Thaler

1959

Species account

Thomomys townsendi relictus (p. 1)

Apr. 3 3.4 mi. N, 2.6 mi. W. Doyle, 4250 ± ft. Lassen Co., Calif.

This morning while driving along U.S. 395 north of Doyle I noted several large gopher mounds on the W side of the road, just beyond ^(North) a sign warning motorists of presence of livestock. I set out three sets of gopher traps, two in ~~back~~ from the road a few yards and one on the shoulder. The tunnels of these animals are very large. When they are straight I could put my entire forearm into one.

This evening I took one gopher from the set on the shoulder of the road. This area is on a hill side, facing SW and overlooking the Long Valley Creek. It is one hundred feet or so above the stream. The vegetation is open with scattered clumps of brush. Some at least are ^{low} sage. The intervening areas are grass covered. The soil is sandy, easily to ~~dig~~ in, reddish-yellow in color.

The distance from Doyle was figured from a point where U.S. 395 crosses the sect line between sect. 8 and 17 of T. 25 N, R. 17 E. This point was also used for figuring the T. monticola locality on the Rawland Ranch. I used the Doyle, Calif. 15' quad, 1954 of the U.S.G.S.

Apr. 5. 0.3 mi. S, 3.0 mi. W Herlong, 4020 ± ft., Lassen Co., Calif.

Last evening I set a couple of gopher sets on the south shoulder of the main E-W road into Herlong from U.S. 395 at this point. This area is gently sloping

T haeler
1959

Species account

Thomomys Townsendi relictus (p. 2)

to the W toward the Long Valley Creek. The soil is sandy and v. easy to dig in. Sometimes I collapsed gopher tunnels by stepping on them while putting in traps. The soil is very light in color just a few shades off the white. The area is sage covered, with fairly close spacing of the sage bushes. For the exact point used as a basis for distance from Herlang see journal for Apr. 4, 1959 (p. 2)

This A.M. I had one ♀ here.

Apr. 5

0.7 mi. S, 3.7 mi. W. Herlang 4020 ft. Lassen Co., Calif.

Yesterday afternoon I set several traps here and this morning I had one gopher. This area is on the flat just W of the Long Valley Creek. I took the gopher from the side of the road (S. shoulder)

This area was covered by less sage and more grass than mentioned above but the soil was still sandy but somewhat darker. Also see journal Apr. 4, 1959 (p. 2) for designation of Herlang.

Apr. 5

2.2 mi. S, 1.6 mi. W. Herlang, 4060 ± ft. Lassen Co., Calif.

Yesterday I set a number of traps on either side of the ^{paved} road that runs N-S. to Herlang from US 395. This area was on the W side of the Long Valley Creek on the flat just above the level of the river. There were cultivated pastures on either side of the road. My traps were set along the right of way however. The soil is sandy, easy digging, and rather dark brown in color. I had 2 gophers this A.M. (journal Apr. 4, 1959 for Herlang)

Thaeker, C.S., Jr.

1960

Catalogue

#885-#1112

calif. her.

C. S. Thaele.

Catalog

1960

P. 1

Apr. 10 Antelope Mtn., 4.8 mi. E, 2.8 mi. N Susanville, 5560± ft., Lassen Co., Calif.

885	♂	<i>Perognathus</i>	T.L. 8 mm. epid. + 179-93-25-10-6 ^c	24.3 gms
886	♂	<i>Peromyscus maniculatus</i>	T.L. 10 mm. epid. + 155-65-20-18	7ms 23.0
887	♂	<i>Lagurus curtatus</i>	T.L. 10 mm. epid. - 129-23-18-10	7ms 28.4
888	♀	"	87-17-13-10	10.0 gms.

Apr. 8 ~~88~~ Antelope Mtn., 4.8 mi. E, 2.8 mi. N Susanville, 5560± ft., Lassen Co., Calif.

889	♂	<i>Peromyscus maniculatus</i>	T.L. 10 mm. epid. + 164-70-21-18	23.4 gms
890	♂	"	T.L. 10 mm. epid. + 165-70-21-19	23.7 gms

1.7 mi. E, 1.5 mi. N Susanville, 4420± ft., Lassen Co., Calif.

891	♂	<i>Thomomys bottae</i>	T.L. 18 mm. epid. + 228-66-28-5-3	166.6 gms
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1.4 mi. E, 1.2 mi. N Susanville, 4360± ft., Lassen Co., Calif.

892	♀	<i>Thomomys bottae</i>	5 emb. 31 mm. C-R length. 202-58-26-6-3	127.2 gms.
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Apr. 12 3.4 mi. W, 2.2 mi. N Litchfield, 4080± ft., Lassen Co., Calif.

893	♀	<i>Dipodomys</i>	4 emb. 30 mm. C-R length. 236-127-39-13-7 ^{(N) (C)}	59.2 gms.
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7.5 mi N, 6.1 mi. E Litchfield, 4420± ft., Lassen Co., Calif.

894	♂	<i>Thomomys talpoides</i>	T.L. 11 mm. epid. + 191-51-27-6-3 ^{(N) (C)}	87.2 gms.
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4.3 mi. N, 3.4 mi. W Litchfield, 4160± ft., Lassen Co., Calif.

Kept alive.	895	♀	<i>Thomomys townsendi</i>	283-90-40-8-5 ^{(N) (C)}	130.8 gms. Capt. Apr. 12, 1960 Died Sept. 13 1960
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Apr. 13 Bald Run Creek, 4.0 mi. S, 1.3 mi W Susanville 4380± ft. Lassen Co. Calif.

896	♂	<i>Thomomys bottae</i>	T.L. 14 mm. epid. + 222-64-29-7-3 ^{(N) (C)}	145.2 gms.
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~~Apr. 13~~ Elysian Valley, 5.0 mi. S, 0.1 mi. E Johnstonville, 4360± ft. Lassen Co. Calif.

897	♀	<i>Thomomys monticola</i>	no emb. 215-76-30-10-8 ^{(N) (C)}	95.1 gms.
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3.4 mi. W, 3.3 mi. N Litchfield, 4140± ft., Lassen Co., Calif.

898	♂	<i>Thomomys townsendi</i>	T.L. 6 mm. epid. - 229-79-33-7-4 ^{(N) (C)}	118.4 gms
899	♀	"	no emb. 254-82-37-7-3 ^{(N) (C)}	191.8 gms.

4.3 mi. N, 3.4 mi. W Litchfield, 4160± ft., Lassen Co. Calif.

900	♂	<i>Zonotrichia leucophrys</i>	T.L. small, 15 mm. approx. length. moderately fat, skull unperf.	26.7 gms.
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Apr. 14 Cold Run Creek, 4.0 mi. S, 1.3 mi. W Susanville, 4380 ± ft. Lassen Co., Calif.

901	♂	T.L. 16 mm. epid. + <i>Thomomys bottae</i>	(N) (C) 236-68-30-7-3	165.7 gms
902	♂	T.L. 16 mm. epid. + "	230-64-30-7-3	154.1 gms.
903	♂	T.L. 16 mm. epid. + "	223-61-30-7-3	141.0 gms.
904	♂	T.L. 15 mm. epid. + no emb. no scars	210-61-29-8-3	134.1 gms.
905	♀	"	246-71-34-8-3	178.1 gms.
906	♀	4 emb. 17 mm. length. "	206-58-29-7-2	124.7 gms.
907	♀	no emb. no scars "	205-56-29-7-3	110.9 gms.
908	♀	no emb. no scars. "	204-60-29-7-3	98.5 gms.
Kept alive. 909	♂	T.L. 15 mm. epid. - (not extending) "	217-67-29-7-3 98.8 gms	Caught Apr. 14, 1960 Killed Apr. 16, 1960

Cold Run Creek, 4.2 mi. S, 1.7 mi. W Susanville, 4440 ± ft., Lassen Co., Calif.

910	♂	<i>Thomomys monticola</i>	(N) (C) 225-72-31-10-8	118.0 gms.
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Elysian Valley, 5.3 mi S, 0.3 mi. E Johnstownville, 4360 ± ft., Lassen Co., Calif.

Kept alive 911	♂	<i>Erithizon</i>	wt. 1392 794-257-115-27 lb.	Caught Apr. 14, 1960 Killed Apr. 20, 1960
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Apr. 15 Dotla Ranch, 1.1 mi. E, 0.4 mi. W Layalton, 4980 ± ft., Sierra Co., Calif.

912	♂	T.L. 15 mm. epid. + <i>Thomomys talpoides</i>	210-60-27-7-4	112.5 gms
913	♂	T.L. 18 mm. epid. + "	217-62-28-7-4	116.9 gms
914	♂	T.L. 16 mm. epid. "	213-62-27-7-4	113.7 gms.
915	♂	T.L. 15 mm. epid. + "	213-62-27-7-5	110.7 gms
916	♂	T.L. 17 mm. epid. + "	203-57-26-7-3	106.1 gms.
917	♂	T.L. 14 mm. epid. + "	209-54-25-7-3	101.8 gms
918	♂	T.L. 16 mm. epid. + "	199-53-25-7-4	101.3 gms
919	♂	T.L. 14 mm. epid. + "	205-55-27-7-4	96.0 gms.
920	♀	9 emb. 6 mm. long "	(N) (C) 201-61-25-7-3	99.3 gms
921	♀	no emb. "	Prep. Paul Carey (N) (C) 200-60-26-7-4	93.5 gms.
922	♀	no emb. "	202-56-25-7-3	90.9 gms.
923	♀	no emb. "	200-58-25-6-3	90.8 gms.
924	♀	no emb. "	206-60-25-7-4	88.8 gms

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Apr. 16 Datta Ranch, 1.1 mi. E, 0.4 mi. N Lofalton, 4980 ± ft., Sierra Co., Calif.
 925 ♀ ^{no emb.} *Thomomys talpoides* 199-57-25-7-3 ^{(N)(C)} 84.1 gms.

May. 9 Berkeley, Alameda Co., Calif.
 926 ♀ ^{emb. 3mm. C-R. length.} *Taderida mexicana* 95-32-9-19
 Captured May 6, 1960
 chd. anal. 9.1960
 8.1 gms.

June 14 ^{1.7} 1.7 mi N, 1.3 mi E Calpine, 4910 ± ft., Sierra Co., Calif.
 927 ♀ ^{no emb., no scars, pelvis open} *Thomomys monticola* 209-61-26-11-7 102.1 gms.
 928 ♀ ^{no emb. no scars, pelvis open.} " " 206-65-27-10-7 92.2 gms.

3.2 mi. W, 0.2 mi. N Calpine, 5680 ± ft., Sierra Co., Calif.
 Testes 7x5 skull ass.
 929 ♂ *Mtn. Chickadee* 11.5 gms.

McNair Meadow, 3.2 mi. W, 1.0 mi. N Calpine, 5300 ± ft., Sierra Co., Calif.
 Testes 11mm. epid.
 930 ♂ *Microtus longicaudus*. 189-62-22-15 41.7 gms.
 931 ♀ ^{no emb. no scars.} " " 151-55-21-14 26.1 gms.

June 15 McNair Meadow, 3.2 mi. W, 1.0 mi. N Calpine, 5300 ± ft., Sierra Co., Calif.
 Testes 9mm. epid. +
 932 ♂ *Peromyscus maniculatus* 166-71-21-19 21.7 gms.

1.9 mi. S, 0.1 mi. W Calpine, 4950 ± ft., Sierra Co., Calif.
 Testes 15mm. epid. +
 933 ♂ *Thomomys monticola* 250-85-26-11-6 102.1 gms.
 934 ♀ ^{10 scars, no emb.} " " 211-64-26-12-8 98.1 gms.
 935 ♀ ^{6 scars, no emb.} " " 211-66-26-10-7 80.1 gms.

McNair Meadow, 3.2 mi. W, 1.0 mi. N Calpine, 5300 ± ft., Sierra Co., Calif.
 max. ovum 3mm.
 936 ♀ *Poor-will* coll. P. Schramm. 51.5 gms.

3.2 mi. W, 0.2 mi. N Calpine, 5680 ± ft., Sierra Co., Calif.
 Testes 7x5mm. skull ass.
 937 ♂ *Hermit Warbler* 10.1 gms

June 16 McNair Meadow, 3.2 mi. W, 1.0 mi. N Calpine 5300 ± ft., Sierra Co., Calif.
 no emb. no scars.
 938 ♀ *Eutamias amoenus* 207-87-29-17 49.3 gms.
 Testes 11mm. epid. +
 939 ♂ *Microtus montanus* 169-48-22-14 44.0 gms.

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June 16 3.2 mi. W, 0.2 mi. N Calpine, 5680 ± ft. Sierra Co., Calif.

940	♀	sapsucker	40.5 gms.
941	♀	Hermit Thrush	28.1 gms.
942	♂	Fox Sparrow	27.6 gms.

2.1 mi. N, 0.3 mi. W Calpine, 4940 ± ft., Sierra Co., Calif.

943	♂	Thomomys monticola	233-76-30-11-7	121.5
944	♀	"	224-75-29-11-9	93.1
945	♀	"	202-73-26-10-8	66.2

June 17 0.3 mi. W, 0.2 mi. S Belleker, 4840 ± ft., Plumas Co., Calif.

946	♂	Thomomys battae	235-70-31-7-4	166.8
947	♀	"	220-64-28-7-3	128.8
948	♀	"	176-49-27-6-2	65.7

0.2 mi. W Blairden, 4390 ± ft., Plumas Co., Calif.

949	♂	Thomomys battae	232-62-30-7-3	168.1
950	♂	"	229-69-32---	155.4
951	♀	"	219-62-30-7-3	133.4
952	♀	"	200-57-29-7-3	114.4
953	♀	"	215-63-29-7-3	105.7
954	♀	"	161-49-24-5-2	46.8

June 26 2 mi E Hobart Mills, 6000 ± ft., Nevada Co., Calif.

955	♀	Pygmy Nuthatch	10.1 gms.
956	♀	Mtn. Bluebird	33.8 gms.

June 27

957		Empidonax wrighti	11.4 gms.
958		Townsend Solitaire	31.6 gms.
959	♂	Citellus lateralis	202.0 gms.

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June 28 2 mi. E Hobart Mills, 6000 ± ft., Nevada Co., Calif

960	♂	White-headed Woodpecker	59.0 gms.
961	♂	Empidonax wrighti	11.2 gms.
962	♀	" "	12.5 gms.
963	♂	Fox Sparrow	33.0 gms.
964	♂	^{I mm. Testis minute (1 mm.)} Slight fat, Williamson Tanager	49.0 gms.
965	♀	^{mod. ovum 3 mm.} sl. fat. Empidonax griseus	12.7 gms.

June 29

966	♂	Empidonax	12.2 gms.
967	♀	" "	11.8 gms.
		^{skull oss.}	
968	♂	Brown Creeper	7.6 gms.
969		Hermit Thrush	24.7 gms.
970		Nashville Warbler	8.5 gms.
971	♂	^{skull oss. V. part.} Testes 5x3 Red Crossbill.	35.6 gms.

June 30

972	♀	^{mod. ovum 1 mm.} mod. fat. Long-eared Owl	339.5 gms.
973	♂	Empidonax wrighti	11.5 gms.
974	♂	" "	11.3 gms.
975	♂	" "	11.3 gms.
976	♂	^{Testes 2x1} Nashville Warbler	8.9 gms.
977	♂	Audubon Warbler	13.0 gms.
978		Western Tanager	36.1 gms.

July 1 Klondike Meadow, 1 mi. W, 1 mi. N Martis Peak, 7000 ± ft., Placer Co., Calif

979	♂	Marmota	411-103-75-26	1032.4 gms.
980		Zonotrichia leucophrys		24.5 gms.
		<u>1 mi. W Martis Peak, 7300 ± ft., Placer Co., Calif.</u>		
981		Empidonax wrighti		10.9 gms.
982		Stellar Jay		113.1 gms.

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July 2 2 mi. E, 1 1/2 mi. S Truckee (Nevada Co.), 6000 ± ft., Placer Co., Calif.

983	♀	<i>Empidonax griseus</i>	13.5
984	♂	testes 7x3 " " "	12.3

2 mi. E Hobart Mill, 6000 ± ft., Nevada Co., Calif

985	♂	<i>Empidonax wrighti</i> 6-7 mm. emb.	11.2
986	♀	<i>Tamiasciurus douglasi</i>	319-118-52-26 wt 237.4 gms.

July 18 3.5 mi. N, 3.2 mi. W Milford, 4070 ± ft., Lassen Co., Calif.

987	♂	Testes 10 mm. epid. - <i>Thomomys townsendi</i>	279-90-38-8-5	272.4
988	♂	Testes 13 epid. - " "	257-79-37-8-4	213.6
989	♀	no emb. no scars. puv. closed " "	252-71-35-8-5	231.4
990	♀	no emb. no scars. pelvic open. " "	241-75-33-8-5	192.0
991	♂	Testes 10 mm. epid. - " "	277-97-36-8-5	244.0
992	♀	no emb. no scars. pelvic open " "	262-80-34-8-5	194.7

July 19 3 1/2 mi. W, 4 1/2 mi. N Flannigan, 4000 ± ft., Washoe Co., Nev.

993	♂	Testes 8 mm. epid. - <i>Dipodomys merriami</i>	252-150-39-14-10	45.0
994	♂	Testes 6 epid. - " "	246-140-39-14-9	43.7
995	♂	Testes 6 epid. - " "	254-147-39-15-10	43.4
996	♂	Testes 8 epid. - " "	241-133-39-14-10	43.2
997	♀	no emb. 4 scars. " "	241-137-37-15-10	39.5
998	♂	Testes 12 epid. + <i>Dipodomys ordi</i>	257-140-42-15-11	61.6
999	♂	testes 10 mm. epid. + " "	254-144-40-15-11	53.4
1000	♂	Testes 10 epid. + " "	247-137-41-15-10	49.3
1001	♀	no emb. 5 large 3 scars. 4 small " "	257-143-42-15-10	52.2

July 20 4 1/2 mi. W, 4 1/2 mi. N Flannigan, 4000 ± ft., Washoe Co., Nev.

1002	♂	Testes 5 mm. epid. - <i>Perognathus</i>	137-72-19-7-5	9.2
1003	♀	no emb. 2 large 3 scars. 5 small " "	126-64-20-7-5 tail not complete	9.6
1004	♂	Testes 11 epid. + <i>Dipodomys merriami</i>	247-143-39-14-10	46.6

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July 20 cont. 4 1/2 mi. W, 4 1/2 mi. N Flannigan, 4000 ± ft., Washoe Co., Nev.

1005	♂ ^{Testes 10mm} epid. <i>Dipodomys merriami</i>	246-143-40-15-11	45.5
1006	♀ ^{no emb.} 4 scars. " "	244-140-38-14-10	42.8
1007	♀ ^{no emb.} 4 scars. " "	233-131-38-15-11	40.5
1008	♀ ^{no emb.} 4 scars. <i>Dipodomys microps</i>	272-158-42-14-10	53.5
1009	♀ ^{no emb.} no scars. " "	259-152-40-14-9	47.8
1010	♀ ^{no emb.} 3 scars. <i>Dipodomys ordi</i>	244-138-40-14-11	49.9
1011	♀ ^{no emb.} 5 scars. " "	242-139-40-14-10	49.7
1012	♀ ^{no emb.} no scars. " "	229-132-40-14-10	38.1

July 19 3 1/2 mi. W, 4 1/2 mi. N Flannigan, 4000 ± ft., Washoe Co., Nev.

1013 *Phrynosoma*

July 20 High Rock Ranch, 4040 ± ft., T18N, R17E, sec. 25, Lassen Co., Calif.

1014	♂ ^{Testes 17mm.} epid. <i>Thomomys bottae canus</i>	256-86-31-7-5	176.1 gms.
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July 21

1015	♀ ^{no emb. no scars. pelvis closed.} <i>Thomomys bottae canus</i> , 4080 ± ft.	206-69-30-6-3	74.7 gms.
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1 1/2 mi. NW High Rock Ranch, T28N, R17E sec. 26, Lassen Co., Calif.

1016	♀ ^{Testes 10mm. epid. no emb. no scars.} <i>Eutamias minimus</i>	191-89-29-15	31.3 gms.
1017	♂ ^{Testes 3mm.} epid. <i>Perognathus</i>	142-79-19-7-5	9.9 gms.
1018	♂ ^{Testes 3mm.} epid. <i>Microdipodops</i>	158-88-26-11-8	14.5
1019	♂ ^{Testes 3mm.} epid. " "	162-92-25-11-8	13.8
1020	♂ ^{Testes 2} epid. " "	157-92-25-10-7	9.3
1021	♀ ^{no emb. no scars.} " "	147-83-25-10-6	9.5
1022	♂ ^{Testes 10} epid. <i>Dipodomys deserti</i>	321-191-54-18-12	108.9
1023	♀ ^{no emb. 5 scars.} <i>Dipodomys merriami</i>	244-138-38-15-10	42.9
1024	♀ ^{no emb.} 4 scars. " "	245-139-38-15-10	40.5
1025	♀ ^{no emb. no scars.} <i>Dipodomys microps</i>	221-128-38-12-9	28.5

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July 21 cont. High Rock Ranch, 4040 ± ft., T28N, R17E, sec. 25, Lassen Co. Calif.

1026	♂	Testes 3 mm epid. -	Citellus leucurus	191-56-38-13	85.2
1027	♂	Testes 4 mm epid. -	" "	196-57-39-14	84.9
1028	♀	no emb. no scars	" "	192-59-37-14	76.9

July 22

1029	♂	Testes 4 mm epid. -	Perognathus formosus	187-105-22-12-9	10.7
1030	♂	Testes 11 epid. +	Dipodomys ordii	241-135-41-13-10	52.2
1031	♀	Testes 11 Hem. 30 mm C-R	" "	244-34-40-13-9	60.4
1032	♂	Testes 7 mm epid. -	Neotoma lepida	251-104-30-27	90.9
1033	♂	Testes 7 mm epid. +	Reithrodontomys megalotis	141-70-17-15	10.5

July 23 Willow Creek Valley, 9.5 mi. S, 4.0 mi. W Fredonyer Peak, 5080 ± ft. Lassen Co., Calif.

1034	♂	Testes 6 epid. -	Thomomys monticola	202-68-28-11-8	99.2
1035	♂	Testes 11 epid. -	" "	211-63-28-12-8	97.8
1036	♂	Testes 5 epid. -	" "	211-71-28-11-8	96.7
1037	♂	Testes 5 epid. -	" "	208-71-28-10-7	75.3
1038	♀	no emb. pelvis closed no scars	" "	211-66-28-11-7	90.7
1039	♀	no emb. pelvis closed no scars	" "	196-67-29-10-8	84.5
1040	♀	no emb. pelvis closed no scars	" "	201-60-27-11-9	89.5
1041	♀	no emb. pelvis closed no scars	" "	199-66-27-10-7	77.4

July 24

1042	♀	no emb. no scars	Scapanus	162-37-22--	67.7
1043	♂	Testes 12 epid. +	Thomomys monticola	213-63-27-11-8	108.9
1044	♀	no emb. pelvis closed no scars	" "	210-69-27-11-9	99.3
1045	♀	no emb. pelvis closed no scars	" "	204-65-28-11-8	82.7
1046	♀	no emb. pelvis closed no scars	" "	203-67-27-10-6	67.9
1047	♀	Hem. 22 mm C-R coll. S.B. Benson	Peromyscus maniculatus	155-69-19-18	27.1
1048	♂	Testes 12 epid. +	Microtus montanus	167-45-22-15	47.6

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July 25 Gutter Spr., Malls Flat, 5650 ± ft., T. 33 N, R 6 E, sec. 2, Lassen Co., Calif

- 1049 ♀ ^{no emb. pelvis closed} ~~Thomomys~~ *Thomomys bottae* 186-52-27-7-3 65.8
1050 ♀ ^{no emb. pelvis closed} ~~Thomomys~~ " " 180-52-25-7-3 62.7
1051 ♀ ^{no emb. 5(?) scars. pelvis open.} " " 210-62-28-7-3 104.8

^{3700 ± ft.}
2.2 mi. W, 1.7 mi. N Dana, Shasta Co., Calif.

1052 *Sceloporus*

July 26 Dickson Flat, 4200 ± ft., T38 N, R3E sec. 6, Shasta Co., Calif.

- 1053 ♂ ^{Tails 11} epid. - *Thomomys mayanus* 200-59-25-8-5 75.0
1054 ♂ ^{Tails 5} epid. - " " 197-65-25-8-6 53.8

July 27 Side Medicine Lake, Siskiyou Co., Calif.

- 1055 ♂ *Thomomys monticola* 209-69-27-9-8 100.9

^{Side}
Trass Lake, 5050 ± ft., T44N, R3W, sec. 23, Siskiyou Co., Calif.

- 1056 ♂ *Thomomys mayanus* 196-63-26-9-6 82.5

July 28 Mt. Shasta State Fish Hatchery, 3440 ± ft., T40N, R4W, sec. 12, Siskiyou Co., Calif.

- 1057 ♂ ^{Tails 14} epid. + *Thomomys mayanus* 222-67-27-10-7 109.4
1058 ♀ ^{no emb. no scars pelvis closed.} " " 204-71-26-8-6 69.0

Moosehead Creek, 4750 ± ft., T39N R1E sec. 36, Shasta Co., Calif.

- 1059 ♂ ^{Tails 4 scars.} epid. - *Thomomys mayanus* 175-55-24-7-5 56.2
1060 ♀ ^{no emb. no scars pelvis closed.} " " 186-57-24-8-5 61.5

July 29 Red Mtn., 5400 ± ft. Big Bend, T38 N, R2E, sec. 31 Shasta Co., Calif.

- 1061 ♂ ^{Tails 12} epid. + *Thomomys mayanus* 193-62-26-7-5 84.0
1062 ♀ ^{no emb. 4 scars.} " " 194-60-25-8-6 76.1

July 26 Pumice Stone Well, 6200 ± ft., T42N, R2E, sec. 14 Siskiyou Co., Calif

- 1063 *Ampystoma macrodactylum* (larva) coll S. Benson and C. Thaler
1064 " " "
1065 " " "
1066 " " "
1067 " " "

Thaelen
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July 26 (cont) Pumice Stone Well, 6200 ± ft., T. 42N, R. 2E, sec 14, Siskiyou Co., Calif.

	<i>Ambystoma macrodactylum</i> (larva)		coll. by B. Benson and C.T. Thaelen
1068	"	"	"
1069	"	"	"
1070	"	"	"
1071	"	"	"
1072	"	"	"
1073	"	"	"
1074	"	"	"
1075	"	"	"
1076	"	"	"
1077	"	"	"
1078	"	"	"
1079	"	"	"
1080	"	"	"
1081	"	"	"
1082	"	"	"
1083	"	"	"
1084	"	"	"
1085	"	"	"
1086	"	"	"
1087	"	"	"
1088	"	"	"
1089	"	"	"
1090	"	"	"
1091	"	"	"
1092	"	"	"
1093	"	"	"
1094	"	"	"

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July 26 (cont) Pinnice Stone Well, 6200 ± ft., T. 42N, R2E, Sec 14, Siskiyou Co., Calif.

1095 *Ambystoma macrodactylum* (larva) coll. A. Benson and C. T. Barber

1096 " " "

1097 *Rhyla regilla* "

1098 " " "

1099 (tadpole) "

July 28 Moosehead Creek, 4750 ± ft., T 39N, R1E sec. 36, Shasta Co., Calif.

1100 *Rana*

1101 "

1102 "

1103 "

Oct. 8 Sage Hen Creek Station, 3.7 mi. NW Hobart Mills, 6320 ± ft. Nevada Co., Calif.

1104 ♂ ^{Testes 2 mm} skull fully developed. *Nucifraga columbiana* 135.2 gms.

1105 ♀ ^{no ant., no scars} ^{palms closed} *Thomomys monticola* 213-72-29-10-8 ^{(N) (C)} 90.0 gms

1106 ♀ ^{no ant., no scars} ^{palms closed} " " 198-60-28-9-8 ^{(N) (C)} 72.6 gms.

Oct. 9

1107 ♀ ^{no ant., no scars} ^{palms closed} *Thomomys monticola* 209-71-29-10-7 ^{(N) (C)} 85.3 gms.

Dec. 10 1.2 mi SSW Inverness, 40 ± ft., Marin Co., Calif

1108 ♀ ^{no skull} ^{no scars} *Sorex townsendi* 119-51-13-10 5.5 gms.

Dec. 11

Dec 11 Tomales Pt., 1 mi. S Upper Peirce Ranch, 150 ± ft. Marin Co., Calif

1109 ♂ ^{T.L. 4 mm} *Sorex townsendi* 122-50-14-9 5.8 gms

1110 ♂ ^{T.L. 4 mm} " " 117-47-13-9 5.1 gms

1111 ♀ " " 121-52-14-9 6.0 gms

1112 ♀ ^{no ant.} ^{no scars} " " 123-53-14-9 5.4 gms.

Griff
died. June 17, 1960
Feb 1 (1961)

Thaele, C. S., Jr.

1960

Journal

California

Nevada

C. S. Thacker Jr.

1960

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SE Lassen Co. Trip - Apr. 9 - Apr. 16, 1960

Apr. 9

Berkeley to Antelope Mtn., Lassen Co.

± Richard Graham.

Left home (Albany Village) @ 12:45 for Susanville.
Drove up U.S. 40 to Winters Cutoff, over to 99W and up to
Red Bluff at 4:20 PM. Then turned east on Rt. 36. began to
see snow about 4700 ± ft. We reached Susanville just after
sunset about 6:40. Turned ~~W~~ out of Susanville, up around
Hidden Valley. Turned right off the main road just short of
the summit on a road that runs to the summit of
Antelope Mtn. We picked out a camping place and looked
briefly for gopher sign but saw none. The soil is v. rocky
and the sage brush is quite dense. By now it was
dark so returned to town for dinner. Back out to
Antelope mtn. by 8:30 PM. We both set out about 40 mus. traps.
The wind was blowing cold from the west and without a
tent it was a problem to find shelter in which to sleep.

Apr. 10.

Antelope Mtn., 4.8 mi. E, 2.8 mi. N Susanville, 5560 ± ft., Lassen Co., Calif

Up at sunrise at 5:30 AM - cold, it must have gotten to freezing
last night. I had 1 Peromyscus maniculatus, 2 Lagurus eximius
(one v. young, no more than a month old), and one Perognathus sp.
Dick Graham got 2. Peromyscus maniculatus and the tail
of a Dipodomys. The soil here is v. rocky, covered ± low sagebrush.
(8" - 24" high)
Occasional junipers are scattered about. This area is grazed by
domestic stock apparently. Dick found part of a sign indicating
that ~~some~~ poison bait had been put out at some time in the
past.

After breakfast we drove over to Willow Creek Valley. Spoke to
the foreman of the Lassen Cattle Co., Inc. He gave us permission

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Apr. 10 (Sat) Antelope Mtn, Lassen Co., Calif.

To set traps for gophers on the ranch. We located several large gopher mounds in the pasture across the road from the ranch and made 4 sets. There were lots of birds in the marsh adjacent to the pasture. Marsh wrens, Redwings, Canada geese, 2 sandhill cranes, cinnamon teal, and pintail. Several ground squirrels were seen in the pasture. We continued on NE (toward Lavenedale) to the edge of the valley. Here we spent $\frac{3}{4}$ hr. looking in a field without seeing gopher signs. On the way out we ~~next~~ checked over traps and found one where the gopher had escaped from the trap. We drove out to the main road and turned ^{back} toward Susanville. We saw no sign of gophers either driving over or coming back from this valley. Much of this road from the summit down into Willow Creek Valley runs through Pines (*Paradarosa?*).

On the way back we turned off on the dirt road that goes down to Leavitt in the Honey Lake Valley. Although we saw several places where there was open level ground, w/ too many rocks we failed to see any gopher signs. Only as we came out into the valley just before Leavitt ($\frac{1}{4}$ mi.) did we first note gopher mounds. These were pretty large and appeared to be T. townsendi. We noted more along the road as we drove W to Susanville. Here we turned north again as we had done yesterday. Just before we reached the summit before dropping down to Hidden Valley we saw some mounds to the right of the road. We got out 7 sets here, 1 about a ^{mi.} $\frac{1}{4}$ farther

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(Apr. 10, cont.) Antelope Mtn., Lassen Co., Calif.

and 4 more on the left (W) of the road just beyond the summit. We found no more near the road as we drove to the NW end of Hidden Valley.

We returned to Susanville and attempted to find a road up into the Susanville Mtns but it proved to be a private logging road. Having no better place to camp we, with some regrets because of the cold winds, returned to our camp site of the previous night on Antelope Mtn. Arriving about 3:30 PM we started skinning last night's catch. After supper we got out our snap traps (I have out 47) and prepared for early bed. It is really cold here with that steady wind from the W. Although it clouded up rather threateningly before and during supper it now looks clearer.

Apr. 11.

Antelope Mtn. to Scott Valley and return to Honey Lake Valley
Lassen Co., Calif.

Up again at 5:30 after a cold  windy night. Our snap traps yielded only 3 Peromyscus maniculatus. Because the wind was so cold we left before breakfast, stopping ~~for~~ to look along the road over to Willow Creek valley. We picked up our traps there but had no success. We returned to Susanville and picked up our sets N of town. Here we got 3 Thomomys bottae. From Susanville we drove east toward Hitchfield. We started seeing big gopher mounds, surely those of T. townsendii in the east part of town. They continued to be in evidence all ~~way~~ across the valley generally on cultivated land but occasionally in sagebrush. ~~Got 2 more.~~

We took the road that runs N from the valley

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Apr. 11 (cont.)

Around Schaffer Mtn. to Secret Valley, Lassen Co., Calif
just ~~west~~ of Shaffer Mtn. Noted numerous gopher
mounds along the road as we ascended the gradual slope
up from the valley, ^{and set traps at several places.} About 3 miles after turning onto this road
it crossed Willow Creek, here we saw gopher workings
on the flat land adjacent to the stream. After this
the road climbed steeply for about 80' then, less steeply
for the next mile. This area is ^{completely} covered with rock;
dark, pitted - of volcanic origin I suppose. Between the
rocks grass and sage grow to some extent but the area
in general appears unfit for gophers. After a mile or so
we turned right, and took another right after
about 2 more miles. This brought us to a halt on the
west rim of Balls Canyon which flanks Schaffer Mtn
on the north and west. We climbed down into the canyon
but, although there was some flat land at the
bottom ~~saw~~ no signs of gophers. We turned around
and drove back taking the last fork to the
left. Eventually we approached Secret Valley. Our
previous trip had been slow - 3 to 7 m.p.h. but
the descent into the valley was really slow. The
road was so washed out that it took us about 20 min.
to negotiate about 100 yards. Once we reached
the valley floor we proceed north towards Karlo.

This valley was covered with sage and
no gophers were in evidence. About a mile from Karlo
the road was washed out so we turned ~~out~~ around
and eventually reached U.S. 395 at the southern

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Apr. 11 (cont.)

Secrete Valley to McAllister Ranch, 4.3 mi. N, 3.4 mi. W Litchfield, 4160 ± ft.

Lassen Co., Calif.

end of the valley by fording a stream on two.

We drove back toward Karlo for about 5 miles and saw three gopher workings along the road enroute. These we trapped. Here the road runs on an embankment above a broad, flat area almost devoid of vegetation.

We then turned back toward the Honey Lake valley on U.S. 395. As we went over the low divide between Secrete Valley and Honey Lake Valley we saw more diggings and set gopher traps. As we came down off the divide ~~we~~ began to see the big T. townsendi mounds about 1 mi. of the junction of U.S. 395 and the road east to Wendel. We finished our circuit around Mt. Schaffer by ~~and~~ returning to the place where we had crossed Willow Creek in the morning. We ^{checked our} ~~set out a number of~~ gopher traps south of here ~~also~~. The small ranch just west of the road, along Willow Creek is owned by ~~Mr.~~ Mr. McAllister. He gave us permission to set traps for gophers and camp on his property. This place is referred to as Belfast in the Litchfield Quad, 1954 ed. (1:62500)

Mr. McAllister told us he had gophers on his land along the stream but said he never saw them on high land, cultivated, behind this ranch (W of the stream.)

We set up camp, put out gopher traps, and spent some time skinning after supper.

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Apr. 12

McAllister Ranch, 4.3 mi. N, 3.4 mi. W of Itchfield, Lassen Co., Calif.

Up late this A.M. - 7:00. After breakfast we went into Susanville for supplies. About 3 mi. east (and a little S) of Susanville, by road, we stopped at the Susan River Ranch, owned by Mr. McKenzie. He gave us permission to drive around his ranch to look for gophers. There were plenty of T. townsendi workings on that part of his property that is on the valley floor. However, we drove on Nona dirt road that runs up a dry wash toward the foot of Antelope Mtn. Although there were numerous relatively flat, open areas we saw no gopher signs. We did catch one sceloporus. This road ended at a large cultivated field in which we searched in vain for gopher signs. This area is approx. 2.4 mi. N, 0.7 mi. E. of Susanville, 4300 ± ft.

We returned to the main road, and drove E to US 395, and then E to the junction of the road to Wendel. About a mile beyond the junction, toward Wendel we set traps in a couple of gopher workings. Also got set out at two other places between here and Wendel. Beyond Wendel found nothing although we continued on for about 3 miles.

We returned to check our sets south of Secret Valley ~~but without success~~ and caught one T. talpoides in the mud flats, on the road embankment. We then returned to McAllister's checking traps along the way. Caught one Dipos in a gopher trap. At McAllister's I found that of the 9 sets I'd made last evening

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Apr. 12.

McAllister Ranch, 4.3 mi. N, 3.4 mi. W Litchfield, Lassen Co., Calif.
seven were sprung, and had hair on them, one was
plugged and one had a live T. townsendi which we
kept alive.

Apr. 13.

McAllister Ranch to Elysian Valley, Lassen Co., Calif.

Up late, at 7:30. I went out alone and picked up
~~all~~ all our gopher traps. Back for breakfast at
about 9:15. We broke camp, returned to Susanville
and headed south. Dick says that McAllister
told him that he'd seen gophers occasionally in the
area N and N W of Mt. Scheffer that we'd driven
thru on Apr. 11.

We drove south of Susanville to ~~the~~ Gold Run
Creek and then west up along the creek. We
stopped several places before finding someone home.
We talked to Mr. Bonaric Saticum and he gave us
permission to set gopher traps on his land. Apparently
he, his brothers and parents own much of
this valley.

The north-facing slope of the valley is heavily timbered,
from the point where the valley opens into the Honey Lake
Valley on west. The south-facing slope is drier, with
only scattered trees to ~~at~~ the eastern end, but more
heavily forested on the western end. The valley
floor is cultivated at its mouth, then an area
of sage and riparian growth and ~~on~~ the Saticum
land it is covered by green pasture. This pasture extends
for a mile from a point about 1 1/2 mi. from the

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Apr. 13 (cont.) McAllister to Elysian Valley, Lassen Co., Calif.

Mouth of the valley. Apparently the Saticas have a dam along the stream somewhere above their land and divert water into irrigation ditches that are dug along either side of the valley at the edge of the trees. They were irrigating at this time and many gopher burrows were full of running water. However we were able to get out a number of traps here.

We drove back down Gold Run Creek to the main road and continued south and east along the edge of the timber to the Elysian Valley. Here we spoke to a rancher who has a place ~~at~~ the western part of the valley. He gave us permission to trap and catch gophers. But he said he had very few around since he had spent the last 5 or 6 years in an intensive campaign to eliminate them. He directed us to a place where he'd seen a few burrows recently and we set up camp and set out traps here and farther south ~~and~~ near the stream that flows east thru the valley. However there were few gophers around. Apparently he'd been rather successful.

The wind has been blowing this afternoon and evening. We've wondered whether or not the tent would stay up on several occasions. After a quiet supper we worked late skinning the day's catch.

Apr. 14. Elysian Valley, 5.3 mi. S, 0.3 mi. E Johnstownville, 4330 ± ft. Lassen Co.
Up late, 8:00 AM. Caught both T. manticula and T. townsendi.

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Apr. 14 (cont) Elysian Valley, 5.3 mi. S, 0.3 mi E Johnsterville, Lassen Co., Calif

together right outside our tent last evening. The wind of the previous 12 hrs or so brought a little rain and snow at elevations about 500' above us. As I checked some other traps nearby this A.M. I came across a porcupine wandering ~~around~~ in a field. Together we managed to get him into a box and nail some slats on it.

We drove out of the valley ~~there~~ about 10:30 and headed back toward Gold Run Creek.

There ~~are~~ are lots of gopher mounds in the tongue of the Hervey Lake Valley that runs up S of the range of hills that terminate in Bald Mtn. to the East. We got out 3 sets at the head of this valley on the Mountain Meadow Ranch, Jack Cleana's Boys Camp. This locality is 3.0 mi.

S Johnsterville, 4440 ± ft. Lassen Co., Calif. We got another set out near Peter Hansen's grave - a big gopher working, ^{almost certainly} ~~probably~~ T. townsendi. Upon returning to Leticia's place on Gold Run Creek we found we had a good series of T. bottae and one T. monticola in the Western-most of our sets. (fartherest up the valley).

On our return to the Elysian Valley asked a number of people about the location of the old Faulkner ranch. This is a locality along Gold Run Creek where Dr. Brinnell collected T. bottae in about 1930. One woman, ^(Mrs. Holmes) we spoke to said she remembered them and

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Apr. 14 (cont.) Elysian Valley, 5.3 mi. S, 0.3 mi. E Johnstonville
Lassen Co., Calif.

indicated that their ranch had been located at the mouth of valley where Gold Run Creek enters the main valley.

By now it was late afternoon so we returned to our camp in the Elysian Valley stopping to pick up our traps along the way. The set near the Peter Jassen Grave yielded no results but one of those farther south at the Mtn. Meadow Ranch produced a T. townsendi. While I checked my gopher sets I heard but failed to see a pileated woodpecker. After supper we put in a long night of skinning. I got to bed about 3 AM.

Apr. 15. Elysian Valley to Portola, Plumas Co., Calif.

We got up rather late (8 AM), picked up our few remaining sets, broke camp and headed south. Drove E to US 395 about 3 mi. N Jonesville then south to Boyle for lunch. We continued to see the large mounds almost certainly ascribable to T. townsendi all along the W shore of Honey Lake.

after lunch we continued south along US 395 keeping an eye out for gopher signs. Stopped at one place where there was open ^{level} ground on either side of the road for a more intensive search but turned up nothing. This was about 5 mi. N of Hallelujah Junction. At the junction we

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Apr. 15 (cont) Elysian Valley to Portola Plumas Co., Calif

turned west on Rt. 24 toward Chilcoot and Portola. We drove up ~~the~~ (North) thru the Long Valley on a dirt road for about $4\frac{1}{2}$ miles. Although this area looked suitable for gophers a casual inspection showed nothing. We returned to the main road and continued W into the Sierra Valley. About 3 mi. E of Beckworth we saw some gopher workings in farm land adjacent to the road but did not stop. I would suppose ^(1 mi. W) that there are probably T. talpoides. At Beckworth we turned south toward Calpine and Sierraville on an unnumbered road. We looked for gopher signs at ^{one of the two} the localities where I'd taken T. bottae last fall but saw nothing. At this locality (3.5 mi. W, 1.8 mi. E Calpine, Plumas Co., Calif.) we drove ^{west} ~~east~~ on a dirt road for about a mile before hitting posted property. - no gopher sign.

We returned to Beckworth stopping en route to set out traps at a ranch 2.0 mi. S, 0.5 mi. W Beckworth, Plumas Co. For the first and only time (I hope) on this trip we had a little trouble securing permission to set traps. The rancher seemed unconcerned with his gophers and actually there were very few on ~~the~~ his ranch. However we did secure his permission and got out a few gopher traps. We then drove into Portola for supper and after many cups of coffee drove east

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Apr. 15 (cont.) Elysian Valley to Portola Plumas Co. Calif.
of town a ~~few~~ mile to a public camp grounds
and spent the night.

Apr. 16. Portola, Plumas Co. to Berkeley, Alameda Co. Calif.
Up early, just before 7:00 after a cold night. After
we broke camp we drove south to check our traps
S of here and picked up 3 T. monticola

We then drove S about $3\frac{1}{2}$ mi. and took a
dirt road to the east out across the valley
floor. The central part of the valley is very
wet. Big borrow pits flank the road on either
side and beyond these are rather extensive marshes
in some places. Numerous shorebirds and a
few ducks were seen. After driving E for
a couple of miles we were forced to stop
while several local men pulled a car back onto
the road. It had almost gone into the borrow
pit and was clear over the edge of the road.
While we helped, we were told that gophers
could be found out in this part of the valley
some of the time, in the higher places
but that few had been seen this spring
supposedly the weather conditions, an early
thaw and later freeze had killed them
off.

After 45 min. we were able to continue.
After driving almost entirely across this southern
area of the valley we turned S on a dirt road

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Apr. 16 (Sat) Portola, Plumas Co., to Berkeley, Calif.

toward Laydton. Just north of this town are finally spotted gopher workings in an adjacent field. We found that the property was owned by a Mr. ^{Leon} Datta who was glad to give us permission to trap on his land. He also directed us to ~~some~~ another field which he owned and leased to a nephew that had many gophers in it. We set out 6 or 8 sets near his ranch and proceeded to the other fields, due east of here. These, in alfalfa were riddled with gophers. We got out about 30 sets and while rechecking a few found T. talpoides. We returned to the Datta Ranch and got several more T. talpoides.

The Datta's seemed interested in what we were doing and we ended up talking for about an hour and a half, during which time we turned down an invitation to stay to lunch.

Finally we were able to break away and drove around the south end of the valley, thru Sierraville, north toward Calpine ~~the~~ and Beckworth. Just ^{Ward} S of the Sierra-Plumas Co. Line we set out ~~5~~ ⁵ pr. of traps. We drove into the Sierra Valley Ranch to try to gain permission to trap. This is a really big place and some of the land looks suitable for gophers although we saw no workings from the road. However, we were

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Apr. 16 (cont.) Portola, Plumas Co., to Berkeley, Calif.

unable to contact the owner so we left without setting traps.

We returned to Dotla's, picked up our remaining sets there, collecting a total of 18 T. talpoides. We stopped in town and got supper, drove north and picked up our remaining traps getting one T. monticola and one T. bottae at about 7:00 PM. Then headed S thru Sierraville to Truckee and back to Berkeley via U.S. 40 at 11:30 PM.

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June 13

Berkeley to 3.2 mi. W, 0.2 mi. N Calpine, Sierra Co., Calif. 156500

Pete Schramm and I left Berkeley about 8:15 AM in MVZ Chev. for the Sierra Valley to trap gophers mainly. We stopped in Sacramento to pick a hand pick and gloves for me and made Truckee by about 1:20 P.M. After a quick lunch we drove on to the valley.

We talked with the Forest Ranger at Sierraville. He suggested a place ~~for~~ us to camp here just west of the valley, above McNair Meadow. He also got talking about the local deer. Said that a lot winter from Sierraville NE along the foothills of the valley up to Vinton, also some move farther E into the desert areas along the state line. He said he saw and estimated about 800 deer between Sierraville and Hazelton last winter.

From here we drove up the west side of the Sierra Valley to the Sierra Ranch. After talking to the owner, a Mr. Terrell (sp.?) looked over some of his fields for gopher sign with no results, either E of the ranch in lower land that looks like it may flood fairly regularly or W of the ranch on higher land, ~~plow~~ wheat and sage ~~off~~ and grass. We then drove back to the road and farther W to the place where I got T. bottae last fall. Here we walked along the road shoulder for about half a mile and got out about 10 or 12 sets. Many of these were in thick patches of grass (soft chert?). ~~However~~ Although we got out traps here we had no luck just on the other side of the fence away from the road.

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June 13 cont. 3.2 mi. W, 0.2 mi. N Calpine, 5680 \pm ft., Sierra Co., Calif.

One thing Mr. Terrell mentioned was the large trapping success a gopher trapper had had on coyotes the previous winter in the valley. He took 80 off the Sierra Valley Ranch alone.

After setting out our gopher traps we returned to Calpine and drove on up to our present camp. This area is very pleasant, relatively moist - forested by cedar, fir, spruce and pine. This area is largely second growth, however there are a few big trees around. We heard both Willow and Hermit Thrushes while having supper.

About 8:50 PM we saw the first bat fly and spent the next 35 minutes shooting. Pete got one Lasiurus and a Myotis evotis, I missed a couple of times. About 10:00 PM I got out about 70 snap traps.

June 14 3.2 mi. W, 0.2 mi. N Calpine 5680 \pm ft., Sierra Co., Calif.

Up rather late this AM. about 7:45 AM. Checked my snap traps but ~~is~~ no result. After breakfast we headed on down into the valley and drove up the W side. Checked a locality at 3.5 mi. N, 1.8 mi. E Calpine ~~Sierra~~ Co., where I'd taken T. bottae last September, but found ~~no~~ gopher workings. From here we continued N about 2 mi. and looked over a couple of fields for gopher workings near the place where I'd taken a T. bottae last spring (4.4 mi. N, 2.8 mi. E Calpine). Still no sign of gophers, although we looked around in an old alfalfa field. Returning S along the road we took turns walking along the

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June 14 (cont) 3.2 mi. W, 0.2 mi. N Calpine, 5680 ± ft., Sierra Co., Calif
road and driving for about 1½ mi. starting adjacent to
where we had checked earlier in the A.M. Still no signs
of gopher workings. After this we checked our traps
farther S along the road and had two T. monticola apices.

Then we drove on S thru Sierra ville and on E of
town out of the valley a little ways to eat lunch.
Upon returning to Sierra ville we checked some fields
just outside (W of town) along routes 49, and 89. but
still couldn't find any signs of gophers, although
here again there were ~~old~~ alfalfa fields. We
then continued N taking the left (W) fork in Sattley. At a
place 1.9 mi. S, 0.1 mi. W Calpine, 5300 ± ft., Sierra Co. we saw some
gopher workings in a dry stream bed. We got out about
13 sets here and continued back to camp. We stopped
and put out snap trap lines in McNair Meadow.

We returned to camp here about 5:30 P.M. I walked down the
road to the W a quarter of a mile or so and shot a Mountain
Chickadee. After supper we went down to McNair Meadow
to shoot bats. They started to fly about 8:40 and we continued
to shoot until about ~~so~~ 9:30 or so. I got one Myotis
which I dropped and failed to recover when I
checked a few snap traps. Took two Microtus
longicaudus in my snap trap line, by 9:30 P.M.
We returned to camp and skinned until about
midnight.

June 15 3.2 mi W, 0.2 mi. N Calpine, 5680 ± ft., Sierra Co.

Up late, about 8 A.M. After breakfast we checked our trapline in the

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June 15 (cont) 3.2 mi. W, 0.2 mi. N Calpine, 5680 \pm ft. Sierra Co., Calif
meadow. I took one more young M. longicaudus (not saved)
and a Peromyscus maniculatus. We returned to camp and
skinned for a while. About noon I left the track
to check gopher traps. I pulled all the sets we had
out getting a total of 5 T. monticola at the locality
SW of Calpine. Then I drove back into the small
valley that lies just W of the Sierra Valley and
N of Rt. 89. I got out about 6 sets at a locality 2.1 mi. W, 0.3 mi. N
Calpine, 4940 \pm ft. Sierra Co., Calif.

Returned to camp about 5:00 P.M. Before supper
I went out and shot a Hermit Warbler. After supper we
drove down to the meadow (McNair) to shoot bats
again. Tonight ~~the~~ our luck was poor. Very few bats were
flying around and neither of ~~us~~ got any but Pete Schramm
shot a Poor-will that I put up. Returned to camp
and skinned until about 11:30 P.M.

June 16 3.2 mi. W, 0.2 mi. N Calpine, 5680 \pm ft., Sierra Co., Calif.
I got up early this morning, about 6:15 AM and
went out W of camp to collect birds. I got three,
a fox sparrow, a hermit warbler and a common
sapsucker. There are lots of birds around this camp including
louisons, and Mac Gillivray's Warblers, Oregon juncos, Golden
crowned Kinglets, Pileated woodpeckers, Red-shafted flickers
Calliope Hummers, Western Wood Pewee, Empidonax (sp?), Swainson's (Russet-
backed) Thrush, Red-breasted Nuthatch.

after breakfast we picked up our traps in McNair Meadow
checked my gopher sets of yesterday and got 3 T. monticola. Then headed

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June 16
(cont.)

3.2 mi. W, 0.2 mi. N Calpine, 5680 ± ft., Sierra Co., Calif
N toward Beckworth. We made two gopher sets just S of the bridge over the Feather River near Beckworth.

From here we headed W along US40 Alt. three Portola to Delleker. Just W of this latter town we saw some gopher workings in an alfalfa field but didn't set any traps. Then continued along 40A to the junct. of Rt. 89 near Blaisden, turning onto Rt. 89. About 1/4 mi. from junct, just beyond the Railroad underpass we stopped and set about 40 gopher sets. While we were working Pete got bitten by a young gopher which we were able to get out of its burrow without trapping it. It proved to be a T. bottae. We then returned and set traps in the alfalfa field near Delleker. We got out about 10 sets here. The field was really over run \pm Citellus beldingi. I estimate that in about a 4 or 5 acre field there must have been nearly 100 animals.

We then returned to camp via Blaisden and Rt. 89. After supper we tried to shoot bats but \approx 10 success near camp. I spent the night catching up on skinning until 5 A.M.

June 17

3.2 mi W, 0.2 mi. N Calpine, 5680 ± ft., Sierra Co., Calif to Berkeley

Up at 6 A.M., broke camp and left to pull up our gopher traps about 8 A.M. We stopped at our sets near Blaisden and each took 6 T. bottae. At the Delleker locality Pete had one and I had 3 T. bottae. Nothing in the two sets near Beckworth.

We drove on home to Berkeley arriving about 4:30 PM

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June 26

Berkeley to 2 mi. E Hobart Mills, 6000± ft. Nevada Co., Calif.

Dr. Miller, Ned Johnson and I left Berkeley about 8 AM in the MVZ Chev. We drove up US 40 to Truckee about ~~1 AM~~^{1 PM} and came to this locality about 2:30 PM after having lunch in Truckee. We made a camp just off the dirt road that runs from Hobart Mills to Boca Reservoir. Ned Johnson has a study area here for his work on Empidonax. We spent the next 2 hrs. seeing ~~his~~ some of the C. griseus and E. wrighti nests he has under observation.

I then set off to collect birds, ended up getting a Pygmy Nuthatch and a Mtn. bluebird. Returned to camp for supper, skinned until 8:30 PM and went out to shoot bats for a few minutes. Saw only one bat briefly and had no chance for a shot. Turned in soon after returning to camp.

June 27

2 mi. E Hobart Mills, 6000± ft., Nevada Co., Calif.

Up about 5:15 on a very cold morning. Dr. Miller's thermometer read 1°C. After a quick breakfast we all left camp. I ended up working in a large circle around camp. The following birds were seen: Mtn. Chickadee, Chipping sparrow, Oregon Junco, Red Crossbill, Green-tailed Towhee, Townsend Solitaire, Mtn. Bluebird, Audubon Warbler, Killdeer, Hairy Woodpecker, Williamson's Sapsucker, ^{Cowbird,} Wright's and Gray Flycatchers, Wood Pewee, Red-shafted Flicker, Night hawk, Gull (sp?) and Red-tailed Hawk. This area is generally rather level, broken by low ridges and shallow canyons. The level areas are covered by open stands of

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June 27 (cont) 2 mi. E Hobart Mills, 6000 ± ft. Nevada Co., Calif.

yellow pine and sagebrush. The slopes of the ridges and canyons are covered by heavier stands of yellow pine and fir and spruce mix in on the moister slopes. Most of the trees are second growth. There are few mature pines. The whole area is quite dry, there are no streams running water now and only one spring about 1/2 mi. S. The area is being extensively used by sheep. A head nearly ran over our camp last evening at supper. By about 10:30 AM the birds had become very quiet. Returned to camp about 11 AM. Spent the afternoon skinning.

After supper I went out owl hunting with Dr. Miller but we had no success.

June 28 2 mi. E Hobart Mills, 6000 ± ft., Nevada Co., Calif.

Up fairly early this A.M. about 5:30 AM. After breakfast I went out to shoot birds on the ridge W of Camp. These are more heavily covered by pine with a sprinkling of white fir that sometimes form dense stands, none are too big, seldom over one foot DBH. Saw a goshawk on the top of the ridge. He allowed me to approach quite closely. Also saw several fox sparrows, and a olive-sided flycatcher. Returned to camp about 11 AM. and spent the afternoon skinning.

About 4 PM we took Dr. Miller to the bus in Truckee and bought more supplies, then returned to camp.

After supper Ned Johnson went owl hunting. I tried a little but shooting first but there are very few bats to be seen in this area. The owl hunting was little better. We were able to call up only one long-eared owl. Returned to camp about 11:30 P.M.

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June 29 2 mi. E Hobart Mills, 6000± ft., Nevada Co., Calif.

Up late this A.M. about 7:00 A.M. I hunted for birds on the ridge NE of camp. It is higher and has more firs on it & a few lodge-pole pine. Saw brown creepers and Nashville warblers which I had not seen previously here, I collected one of each. Also heard several evening grosbeaks flying over. Also saw golden-crowned kinglets and hairy woodpeckers. Returned to camp and spent the afternoon and evening skinning.

June 30 2 mi. E Hobart Mills to 1 mi. W Martin Peak, 7300± ft., Placer Co., Calif.

Up about 6:15 A.M. after breakfast I hunted for birds on the ridge NE of camp again. A pair (?) of sharp-shin hawks were much in evidence here this morning. They flew close overhead through the trees on several occasions as I tried to call some smaller birds in.

Returned to camp, spent the afternoon skinning. After supper we moved camp. Returned to Truckee, took the road S from the E end of town. We turned off the hard-surfaced road on a dirt road toward Martin Peak. About 2 mi. short of the peak we turned N and drove on another road for about a mile to our camp here.

This area is covered by a forest of red and white fir and lodge-pole pine. About 1/2 mi. further down the road and a little lower down there is a fair amount of Jeffrey pine in the forest. Manzanita is common on the hillsides in clearings and there are low willows along the streams which are mostly dry now.

I tried unsuccessfully to shoot ~~some~~ bats which were

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June 30 (cont) 1 mi. W Martis Peak, 7300 ± ft., Placer Co., Calif

fairly common. Later Ned and I went owl hunting. He took a pygmy owl early in the evening. Later we heard ^{flamulated owls} four, along a $\frac{1}{2}$ mi. stretch of road about $\frac{1}{2}$ mi. below camp. Ned was able to shoot one. Returned to camp about 11:15 PM.

July 1

1 mi. W Martis Peak, 7300 ± ft., Placer Co.,

Up about 7:15 AM. I hunted the area N and NE of Camp this morning, but with little success. The birds stayed high in the trees. Red crossbills, evening grosbeaks, pine siskins and Cassin's finches were common, all flying overhead. The area about $\frac{1}{2}$ mi. NE of here is ~~drier~~ drier and pine covered. At Klandike Meadow, about $\frac{1}{2}$ mi. below camp I shot a marmot. Killdeer were ~~seen~~ seen here as well as Wilson's Warblers, white-crowned sparrows, Lincoln sparrows, and wood peckers.

Returned to camp about 1 PM. Skinned during the afternoon.

About half an hour before sunset Ned drove me back down to Klandike Meadow. Just after leaving the car along the south side of the meadow about 30 yds. from a shack I saw a large mustelid. I ran into the hollow base of a burnout pine and disappeared. Although I banged the tree for a minute or so I couldn't dislodge him. There can be little doubt that it was a fisher (Martes americana). Although I have never seen this animal before the light was still good and I was only about 30 yards away.

There were a few bats flying over the

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July 1

Klondike Meadow, 1 mi. N, 1 mi. W Martin Peak 7000± ft. Placer Co., Calif.
The meadow I wasn't able to shoot any. About 45 minutes after sunset I started hearing Flamulated Owls. after pursuing one for a few minutes on the N side I lost him but my imitation attracted calls from a horned owl on the south side of the meadow. I went after him for a while but never got a shot. I could get him to "hoot" only in response to my ~~horned~~ flamulated owl call not my horned owl imitation. After about 20 minutes of trying to get a shot the owl moved off and I lost him. I returned to the N side and ~~the~~ started after the Flamulated again. At one place I got quite close ~~and~~ picked up a second owl with my light (not the one which had been calling). My shot missed. So I continued after the individual which had been calling and followed him to the top of the ridge before losing him. Later I called up another on the ~~DE~~ E end of the meadow. I chased this one into some fairly dense timber, saw him fly several times but could never locate him perched. In 45 minutes of hunting him I never got a shot. By now it was a little after midnight and the moon was up. I heard no more owls on the way back to camp although I continued calling. Had got two Spotted Owls during the night.

July 2.

1 mi. W Martin Peak, 7300± ft. Placer Co., Calif.

Up about 7:30, weather warm and overcast, after breakfast

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July 2 1 mi. W Martis Peak, 7300 ± ft. Placer Co. to Berkeley, Calif.
we broke camp and started back to Truckee. We stopped
the car just where the road crosses the Placer-Nevada Co.
line, I walk east from the road across a sagebrush
covered flat for about 1/2 mile. Here there is a steep
dropoff to the flats below. Along this steep bank
was a line of lodgepole and yellow pines. In about
half an hour I took two Empidonax griseus.

Returned to the car and returned to our
camp near Hobart Mills. We walked over to Ned's
study area where I shot a chickadee and an
Empidonax wrighti. By now it had started
to rain. We returned to Truckee for lunch
and headed back to Berkeley arriving about
mid afternoon.

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July 17 Berkeley to 3.5 mi. N, 3.2 mi. W Milford, 4070 ± ft., Lassen Co., Calif.

Left Berkeley about 10:30 AM for the Honey Lake Valley. Dr. Benson and I had the M.V.Z. Chev. We drove up by way of Reno, Nev. where we stopped for lunch about 3 PM. Dr. Benson succeeded in making the stop pay. From Reno we drove N on US 395. We looked at several localities around Merlang where I'd collected T. bottae and T. townsendi 15 mos. ago. Along the road that runs E to Merlang from US 395 ~~the~~ it ~~several localities~~ was noted that the T. townsendi localities were all in salt grass ^(c. sage) while the T. bottae localities were above this in areas where salt grass no longer grew or at least not so evidently anyway.

We continued N from here stopping at the ranch of Mr. Eagle just N of Milford. He gave us permission to camp and trap gophers on his place. I got out 11 sets in an alfalfa field in burrows that were obviously T. townsendi. After supper we turned in as soon as it got cool enough to get into a sleeping bag.

July 18 3.5 mi. W, 3.2 mi. W Milford to mi. N, mi. W Flannigan, Washoe Co., Nev.

Up about 6 AM. After breakfast we checked our traps. I had 4 T. townsendi, Dr. Benson 2, one from a ^{dry} field of rye just W of the road (US 395). After gutting the gophers I looked for gophers W of the road on the gently sloping ~~and~~ ground where a stream (dry) comes down from the mts. This area

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July 18 (cont) 3.5 mi. N, 3.2 mi. W Milford to mi. N, mi. W Flannigan Washoe Co., Nev.

is quite dry and covered by sage, *Ceanothus*, scattered aspen, oak and yellow pine (generally small ~~trees~~). After about 30 min. walk I had found no sign of gophers.

We skinned until about 2:30 PM then packed up and left about 3:25 P.M. I picked up 2 more T. townsendi before we left.

Drove ~~to~~ the range of hills W of Bald Mtn. in the northwestern part of the Honey Lake Valley looking for T. talpoides. Although we found no gopher sign they may be in this area. There are spots amongst the sage and other fresh species that might support gophers. After driving over these hills to the N we decided to try to find a Microdipodops locality at Warm Spring, 9 mi. E Amadee. We enquired at a ranch (High Rock) in the vicinity but without finding out the location of Warm Spring. However, they said that there was a warm spring on the ranch. Later consideration seems to indicate this must be the place.

However, ~~after~~ we continued on to Flannigan, Nev. and returned back up the road toward the state line and half a mile W on a ^{little} dirt road to our camp here. After supper we got out our snap traps. Turned in about 10 AM.

July 19 mi. W, mi. W Flannigan to High Rock Ranch, Harney Co., Calif.

Up about 5:45 AM and picked up our traps. I had one ~~very~~ young Dipodomys ordi, ^{2 (one young?)} D. merriami and a

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July 19 (Sat) High Rock Ranch, R 28N, T 17E, sect 25, Lassen Co., Calif.

Peromyscus maniculatus In addition to the Vepos I put up. After breakfast we broke camp and returned to the High Rock Ranch. Mr. Block who works this ranch gave us permission to camp in a shed on the ranch, and to trap gopher. We spent the next ~~2~~ hrs. putting out gopher traps in some fields S of the ranch buildings, one a dry field and a second in hay that was being cut. A nearby alfalfa field seemed to have no gophers.

After this about 11 AM we started skinning, continuing until late afternoon. About 7 PM we drove E across the state line again to set snap traps. ~~Returned~~ Both the tonight's and last ~~long~~ night's trapping have been in areas of loose soil (tonight more sandy - near some sand dunes) covered in sage and other desert bushes. Returned to the ranch for a late supper and ~~to~~ to bed about 10 PM.

July 20 High Rock Ranch, R 28W, T 17E sect. 25 Lassen Co., Calif.

Up early, about 5:30 AM and went to check traps. In addition to those specimens I put up I had one young Hipodromys microps? 9 young D. ordi 5 ♂♂, 4 ♀♀ and 11 young D. merriami 5 ♂♂, 6 ♀♀. Returned to camp, checked gopher traps without success, but Dr. Benson got 4 Thomomys bottae canus (also 2 last evening). Dr. Benson also had one Microtus and

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(cont.)
July 20.

High Rock Ranch, 4040± ft. T28N, R17E, sec. 25 Lassen Co., Calif.

2 Dipodomys ^{deserti} ~~ore~~ from his snap traps.

I spent the rest of the day until about 3 PM skinning. Dr. Benson skinned for a while and then went to Hitchfield to shop for food.

About 3 PM I checked my gopher sets and set several more. One set was plugged for the second time. Then Dr. Benson looked for a place to catch more D. deserti in Calif. Checked some low dunes SE of the ranch buildings here (about 1/2 mi.) but ^{had no success and} no success. Then we drove about 1 mi. W to some more dunes just N of the road. Here we saw D. deserti workings and put out our snap traps. Returned to camp at the Ranch about 6:30. Checked my gopher sets and had one despite the mosquitos which are v. bad in the fields at this time.

~~The following~~ There are numerous water birds around here since there are marshes south of the ranch. Avocets were seen in fields as well as perhaps 20 geese, and a Wilson snipe. Nighthawks are common and fly often during the day. A pair of red-tailed hawks have been seen regularly. Kingbirds are common around the trees of the ranch.

Turned in just before midnight.

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July 21

High Rock Ranch, 4040 \pm ft., T28N, R17E, sec. 25, Lassen Co., Calif

Up late about 5:45 AM and went out to check our traps. Besides those I put up I had two D. merriami, both young, 1 of each sex. Mr. Benson also got a D. panamintinus i.e. 5 species of Dipos here at one place. After breakfast I checked my gopher sets and picked up a T. bottae. Spent the day until late afternoon skinning. About 5:45 PM I went out to shoot antelope ground squirrels and got three in about half an hour. About a quarter of a mile S of the ranch buildings there is an area where hay and had been put out last winter for the cattle. Ground squirrels are common here.

After supper we set out our traps on the ranch. I put some rat ^{museum specials} and leghyler traps up in ~~an area of~~ around some rocks just W of the ranch buildings. The rocks are deposits that have resulted from the warm spring. The people here say the water temperature 79°F. Then I ran a trapline W of the rock formation, also some in the dry field S of the ranch where I had my gopher sets and a line ~~at~~ thru the grass and other plants along an irrigation ditch S of the ranch.

After I got back I started skinning my ground squirrels. Went to bed about 10:30 PM.

July 22

High Rock Ranch to Willow Creek Valley, 9.5 mi. S, 4.0 mi. W Fredonyer Peak, 5080 \pm ft., Lassen Co., Calif.

Up early about 5:30 AM. Checked traps and besides what I put up I caught 5 D. merriami 1 ad. ♀, 1 young ♂, 3 young ♀♀ (one a vaginal Plug); 2 D. ordii both young one of each sex; 1 sub. ad. ♂ D. microps, 1 Perognathus longimembris young ♂; 1 young ♀ Reithrodontomys Put

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July 22¹⁹⁶⁰ High Rock Ranch to Willow Creek Valley, Lassen Co., Calif.
up skins until about 11:30 AM. Talked to the man who runs the ranch here, Mr. Hooks. We asked him where Ft. Loege was. He told us it was a rock entrenchment on the highest part of the Ft. Loege Mtns. where a group of troops had held off an Indian attack. We questioned him about the cattle on the ranch. He told us that cattle were run here only in late winter at calving time. Now they were up in the mtns, the Sheddadex N and NW of here. In the fall they go into Honeylake Valley then out here.

After lunch we packed up and left about 1 PM. Stopped in Litchfield for gas then on to Susanville for groceries and to get the latch on the rear door of the truck fixed. We left Susanville about 4:30 PM taking Rt. 129 up into the Willow Creek Valley.

We drove to the east end of the valley to the Barron Oaks Ranch to enquire about pocket gophers. We spoke to the foreman but he could not help us. However we learned from him that much of the valley floor is flooded in the spring. Therefore much of the green hay fields here may be too wet for gophers, this being the reason for their apparent lack here.

The foreman told us of an alfalfa field on another ranch a couple of miles south of here. We drove to it but still no gophers. We continued up the road past the alfalfa to the Murren Ranch and were told that we might stay here and trap gophers. The two Murren brothers told

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July 22 (cont) Willow Creek Valley, 5080 ± ft., 9.5 mi. S, 4.0 mi. W Freckner Peak, Lassen Co., Calif.

as they had seen mounds in an upper hayfield when they mowed hay recently. The hay is being mowed all over the valley now. We drove up to the hayfield which is located where Roundstock Canyon opens out above the valley. Here we found gopher working and I got out about 13 sets before quitting when the truck got stuck. Irrigation water had just been turned into a dry-appearing field from the two little reservoirs just above here. The truck got mired to the hub cap of the right rear wheel. Finally one of the Murrer brothers saw our plight and showed up with a truck and chains and pulled us up but not until a bit of the hayfield had been ripped up. By now it was almost dark so we ate by lamp light, and turned in right afterwards.

July 23

Willow Creek Valley, 5080 ± ft., 9.5 mi. S, 4.0 mi. W Freckner Peak, Lassen Co., Calif.

Up late this morning about 7:00 AM. After breakfast we checked our gopher traps and I picked up 6 T. monticola. Then we drove over to the Hansen Cattle Co. Ranch in the east end of the valley, along the dirt road that goes over the mtns to the east to Horse Lake. This spring I had thought I had seen signs of a large gopher here, i.e. T. townsendi. However, a search of some of the higher unflood (in the spring) fields turned up no gopher signs at all. Dr. Benson says

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July 23 ^{cont} ~~at~~ Willow Creek Valley, Lassen Co., Calif. (5080± ft),
saw a kangaroo rat; ground squirrel burrows and
badger workings were common. Returned to
our camp on the Murren Ranch, skinned until mid-
afternoon. Then ate a bit of lunch, set two mole
traps, set out 4 more gopher sets and picked up two
more gopher. Returned to camp, bathed, skinned
my gophers, ^{and} ate dinner. Mr. Murren and his son-in-
law a Davis graduate drove up to see how we
were coming along. Mr. Murren seems to have
forgiven us for ripping up his field and
getting him up to haul us out last evening.

We talked for a while, then finished up a few
days work and turned in about 10:45 PM.

July 24

Willow Creek Valley to Butler Spr., Hall Flat, 5650, T33N, R6E ^{Lassen Co. Calif} sec. 2

Up about 6 AM. After breakfast I pulled in my gopher traps
and mole traps. I had one mole and 4 more T. monticola. By
11 AM we had some of the night's catch skinned and ~~and~~
were packed up and underway. We stopped at the
Murren Ranch on the way out and were shown a
^{bats} roosting place. In the barn a couple of bundles of
burlap sacks had been hung up from the rafters.
There were perhaps ²⁰ ~~30~~ bats roosting in one bundle and
maybe 10 in a second. We ^{secured} ~~separated~~ 6 but let four
young go. They proved to be Myotis yumanensis.

We returned to Susanville, stopped for lunch and
groceries and were en route by 2:30 PM. Drove War
Rt. 36, took the turnoff for Silver Lake. Drove past

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July 24. Butler Spr.
~~Halls Flat~~, Halls Flat, 5650 ± ft. T 33N, R 6E sec 2, ^{Harmon Co.} ^{Calif.}

Wlog Flat and McCoy Flat both of which looked like possible places for Thomomys bottae. We missed the turnoff for Feather Lake but eventually found the place. Another 10 mi. of the ~~new~~ road up to Pittville has been recently paved since the time our maps were made.

At Feather Lake we looked for gopher workings. A year ago Pete Schramm had collected both T. bottae and T. manticola here. Workings we judged to be those of T. bottae were seen in brown soil, ^{somewhat sandy}, in grassy areas in the sage brush ~~with~~ which is quite low. Other workings were seen in reddish, stony soil near the pine, yellow and lodgepole. We continued ~~N~~ toward Pittville through a series of broad open valleys: Pine Creek Valley, Grays Valley, Grass Valley. All these appeared sufficiently similar to the Feather Lake to support T. bottae populations. We stopped at the Black Mtn. Forest Experimental Station (formerly Halls Flat R.S.) From here we drove NW paralleling the Power Transmission lines to Butler Spring, 0.2 mi. beyond the road off to Ballard Spr., this 1.2 mi. from the forest station. Here we camped and set out gopher sets. After supper I missed some bats. Later Dr. Benson checked his ^{some of his} traps and got a T. bottae. Got to bed about 11 P.M.

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July 25 Halls Flat to Dickson Flat, 4200± ft., T38N, R3E, Sec. 6
Shasta Co. Calif.

Up about 6:30 ~~AM~~ AM. Checked my traps and had 2 young T. bottae. After breakfast we skinned. Discovered that the bats I'd gotten yesterday had escaped. Just before leaving I checked my traps and got another T. bottae. This area is forested by lodgepole and yellow pines with many open meadows & a scattering of sage.

Got underway about 11:30 AM. Continued to see habitat that resembled that where we had caught T. bottae at least ~~at~~ little beyond Jolley Camp. Beyond here there were fewer meadows along the road but one could probably find ~~gopher~~ T. bottae all the way to the Pit River. Here the valley of the Pit is several miles wide & much cultivation.

Stopped for gas and groceries in MacArthur. From here we took a back road thru Glenburn and came up the Fall River Valley. At Dana we swung westward away from the valley up into the mtns through heavy timber. Stopped once to check a clearing for gopher sign and got a Sceloporus. After we reached Rt. 89 we continued NW for several miles to Dickson Flat where we camped for the night. Set out 8 gopher sets around the edge of the meadow. ~~By~~ The center of the meadow had been flooded and was now baked hard & no gopher workings. There were many bats flying but failed to hit any. Got to bed about 10 P.M.

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July 26 ^{6800±;} Dickran Flat to Medicine Lake, Siskiyou Co. Calif.

Up at 5:45 AM. I had two T. mayanus. After breakfast we skinned until about 9:30 AM. Off about 10:30 AM. Drove on to Bartle, here we turned right (North) off Rt. 89 toward Medicine Lake. About a mile N of Bartle we stopped and set out some gopher traps but failed to catch any in an hour and a half. Continued on again, stopping one-half a mile S of Slagger Camp to set traps again. Dr. Benson got a T. manticola. Here the area was the bottom of a valley just beside (E) of the road. It ~~was~~ forested c fir and yellow pine, c open spaces covered by low bushes and grass. The valley floor was slightly sloping.

We continued on to Medicine Lake. Stopped for water at the Harris spr. Guard Station. Drove up just east of Pumice Stone Mtn., and Paint Pot Crater. We stopped at Pumice Stone Well, 6200± ft., T. 42N, R. 2E, sec 14. Here we found many larval salamanders, tadpoles and some Hyla regilla. We collected some. This area is covered c v. light colored soil, - sandy and rocky in ~~its~~ consistency. It appears v. well drained. These areas are forested by solid stands of lodgepole pine.

After collecting the amphibians and bathing, we continued on to Medicine Lake, camping about the middle of the N shore. After supper I got out 7 gopher sets.

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July 27 Medicine Lake to Mt. Shasta State Fish Hatchery, ^{Calif} Inyo Co.

Up about 6:30 Checked gopher traps and had one T. manticola. Here as before in the sandy light soil the trees are solid stands of lodgepole pine. After breakfast and skinning we left for Tennant. Stopped at the fire lookout on Little Mt. Hoffman. Unfortunately the day was quite hazy and our view generally quite restricted. Our road went N for several miles from a point near Purice ~~State~~ Spr., then turned ~~W~~ and finally finally S into Tennant. On better soils the forest was composed of Red and White Firs and yellow pines, especially at lower elevations. On the lower flats the area was generally rocky & sage, brush and scattered yellow pines.

In Tennant we drove S for about 7 miles to a locality for T. manticola, ~~at~~ We got to the probable place in a ^{heavy} forest of fir & scattered yellow pine. Returned to Tennant and continued W over Butte Creek. near a T. mayanus locality. Here the creek was in pasture land & scattered yellow pine. The adjacent flats along the stream were sage covered. Continued out to U.S. 97 and SW toward Weed. Stopped to catch gophers at Grass Lake. The valley here is flat, grass covered, and surrounded by slopes covered & yellow pine, sage and grass. Apparently at some seasons the central part of the valley is flooded because the soil is clayey, hard and now dry and cracked. Around the edges seems to be the only place for gophers. We got out some traps - I

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Mt. Shasta State Fish Hatchery, 3440± ft. ^{T40N, R4W, sec. 17, Siskiyou Co., Calif.}
~~and a half~~

got out 8 sets. After an hour of waiting we pulled our traps. I had caught one Thomomys mayanus.

We then continued south thru Weed and on to the town of Mt. Shasta. In the center of town we turned W for almost a mile then S to the Sacramento River (or a major tributary thereof). We spent some time looking for gopher workings just West of here along near the river, but to no success. Later we returned to the Mt. Shasta State Fish Hatchery. Here we secured permission to spend the night and later set out several traps around the grounds of the hatchery. About 10 P.M. we got to bed.

July 28

Mt. Shasta St. Fish Hatchery to Red Mtn 5400± ft. Shasta Co., Calif.

Up about 7 AM, after breakfast checked traps, I got two Thomomys mayanus. After visiting briefly with Mr. Hill the Hatchery superintendent we headed S and then East on Rt. 89. About 6 mi E of Bartle we turned S off Rt. 89 on a dirt road toward Red Mtn. and Big Bend. After driving about 6 miles we reached a place where the road crossed Moosehead Creek (stream flowed from right to left where we crossed). This area had been recently logged and the area was open, covered by brush and grass. We found numerous gopher workings and got out some sets - I got in 9. After lunch I picked up several baits along the stream. When I pulled my traps I had two Thomomys mayanus. The forest here seems rather moist. Cedars and firs predominate rather than pine.

The first part of the paper discusses the importance of the study and the objectives of the research. It then proceeds to a literature review, followed by a description of the methodology used in the study. The results of the study are presented in the next section, followed by a discussion of the findings and their implications. The paper concludes with a summary of the main points and a list of references.

The study was conducted in a laboratory setting, using a series of experiments to measure the effect of different factors on the rate of reaction. The results show that the rate of reaction increases with increasing temperature and decreasing concentration of the reactants. The data is presented in a series of graphs and tables, which are discussed in detail in the results section.

The findings of the study have important implications for the understanding of chemical reactions and the factors that affect their rate. They also have practical applications in the design of industrial processes and the development of new materials. The study is a valuable contribution to the field of chemistry and provides a solid foundation for further research.

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July 28. Red Mtn. 5400± ft., 5.0 mi. N Big Bend T38N R2E sec. 51 NW 1/4
Shasta Co. Calif.

We continued on as the road climbed to the top of a ridge and swung to the NE. Here where the forest opens we were treated to a spectacular view of Mt. Shasta. I think these views of Shasta from the E are the most spectacular. The mountain rises 8000 ft or so from gently rolling country - its symmetry unmarred by the prominent Cindercone on the west side. The road continued on to the E of Red Mtn. Here the road ran along a ridgetop, relatively level, with steep drops on either side especially to the W. We camped just SE of the peak in an old deer hunters camp. Gopher workings were relatively common in more open places in the forest. I got out 10 gopher nets and about 80 mus. traps. This place is loaded w bear scat. I saw it in at least 15 places while setting out traps. Flushed a covey of dusky grouse while walking thru an alder thicket. This place like the place where we trapped at noon is forested mainly by cedar and fir. Sugar pines were seen several places along the road during the afternoon. In general this mountain range between here and the Sacramento River to the W seems to be ^{more} moist than the area to north of here (from Battle to Medicine Lake) that we drove through a couple of days ago. We turned in about 9:30 PM.

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July 29 Red Mtn. Shasta Co., to Berkeley Calif.

Unfortunately we had not bothered to put up a tent last night. This morning about 4 A.M. it began to rain. We retreated to the truck for an hour or so and by 5:45 or so it was light enough to pick up the traps. My snap trap line yielded nothing and I got only 2 gophers in my other traps. In the process I got soaked to the skin by vegetation - it had largely stopped raining. We ate breakfast and packed up and left by about 9 A.M. However we were able to check our location before we left with a Forest Service fire fighting crew who were checking on a smoke report.

We continued on for about 4 miles and hit a better road south to Big Bend. From here we drove W across the valley to Redding ^(at noon) and S back to Berkeley by late afternoon.

Thaeler
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Calif

Oct. 7

Berkeley to Sage Hen Creek Station, 3.7 mi. NW Hobart Mills, 6300±', Nevada Co.,

Left Berkeley at 3:05 PM for Sage Hen Creek with 3 of the four students from Dr. Benson's Mammalogy Class. These were Helen McGinnis, Jerry Marten, and Don Calvert. Don Seegrist had gone up earlier in the day to Dr. Benson. We stopped for dinner at Barber about 6 PM. and arrived at Sage Hen Creek Station at 8:15 PM. Since we arrived after dark there was no time to set any traps. Turned in about 11 PM.

Oct. 8

Sage Hen Creek Station, 3.7 mi. NW Hobart Mills, 6300±' Nevada Co., Cal.

Up about 6 AM. Temperature dropped to about 26°F last night - not too cold. Overcast last night. After breakfast we checked the traps Dr. Benson had put out last night. He had one Microtus longicaudus, 2 or 3 Peromyscus maniculatus, 2 Neotoma cinerea, and a couple of Thomomys monticola. Microtus and Peromyscus populations appeared to be well down. Numerous Tamiasciurus douglasii were seen, more than I remember seeing in past years at this time. Dr. Benson shot 2. He also got a Clark's Nutcracker. These birds were quite conspicuous.

After checking traps along the stream, in the nearby meadow, on the S-facing slope just above the station and in the rock slides 3/4 mi. E of the station we drove west up the road to look at the ~~for~~ brush field 2 mi. W of here. Then we stopped along the stream on the way back in an area of aspen (these turning to yellow and orange now) and firs, then back.

Late in the afternoon I took the students back up to

Theaker.
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(cont)
Oct. 8. Sage Hen Cr. Sta., 3.7 mi NW Hobart Mills, 6300±, Nevada Co., Calif

the brush fields to set traps, then back to the rock slide
so they could set traps for woodrats, I shot a couple of chipmunks ^{1 E. amoenus}
^{1 E. spicatus (15' up in a}
^{Jeffrey}

After supper I skinned Dr. Bensen's two gophers

Turned in about 10:30 PM.

Oct. 9 Sage Hen Creek Station to Berkeley, Calif

Up about 6:45 AM. Cold - down to 70°F this AM.

Drove the students around to pick up traps. Results were poor -
a few chipmunks, some Peromyscus maniculatus and some gophers.

It began to snow slightly about 8 AM, and continued until about
10 AM. but this left only a slight white on the ground here. Up higher
the trees could be seen to have a gray cast from the snow. I put
up another of Dr. Bensen's gophers. About 2 PM, we left for
Berkeley arriving here about 7:30 PM despite some
car trouble.

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Dec. 10

Berkeley to Upper Pierce Ranch (McClures), 300+ ft. Marin Co., Calif.
at 7:30 AM I left the Zool. 135 class - D. Marten, H. McTinnis and D. Leegrist for Dr. Benson's place south (1 mi.) of Inverness, Marin Co. We arrived in the rain about 9:15. We checked traps he had set around his place taking Sorex townsendi, Peromyscus maniculatus and Reithrodontomys megalotis. Then we drove W over the ridge and down near the head of Drake's Bay to check some traps he had put out for Aplodontia yesterday. These ~~were empty~~ produced one mtn. beaver, one Peromyscus maniculatus and a Neotoma fuscipes.

From here we drove N toward the McClures' Ranch (Upper Pierce of recent topo maps - 7 1/2' series) where Dr. Benson had arranged for us to stay in some of the ranch buildings. Afternoon lunch we walked on down to the beach on the Bay side. We noted racoon scat with crab shells in it along the rocks south of the beach.

Later in the afternoon Gerald Marten and I drove back along the road for about a mile and set traps in the swales in a valley on the ocean side. I set almost 100 traps in big bunches of grass. The ground was very wet and frequently I sank almost knee deep in mud. Here the slopes are all covered in chaparral and there are a few larger small trees in the bottom of the canyons.

Therrell
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~~Dec~~ 10 Upper Pierce Ranch, 300± ft., Marin Co. Calif.

after supper I took a shot at a gray fox in the yard of the ranch. although I hit him he was able to run off and I lost him in the dark. Later the 5 of us returned to the bay beach. Dr. Benson demonstrated rather successfully his game call on a gray fox. We saw numerous deer, fox and racoon in the light from flash lites and head lamps. Dr. Benson had a fox in a steel trap at the beach.

We continued north for about 1/2 mile, then W to the road and back to the ranch. I turned in about 10.

Dec. 11. Upper Pierce Ranch, Marin Co. to Berkeley

Up about 7:00 AM. after breakfast I checked my traps and got 4 Lepus townsendi and 6 Peromyscus maniculatus. We packed up and left about 10:30 AM. Stopped to pick up the mountain beaver traps before ~~the~~ returning to Berkeley about 3:30 PM.

Thaeler, C. S., Jr.

1960

Species Account

Thomomys

Empidonax

Thaler
1960

P. 1

Thomomys bottae (other than saxatilis and canis)

Apr. 16 4.4 mi. N, 2.8 mi. E Calpine, 4900 ± ft., Plumas Co., Calif.

We had set three sets just a couple of hours ago, in late afternoon. When we pulled our traps at about 6:45 PM (REG #223) we had one of this species here. This area is just off the road to the W on the land that rises up from the valley floor to the ~~the~~ base of the mtns. The soil is brownish, relatively easy digging, ^{fairly} dry. The area is covered by grass and annuals, nothing very tall. ~~There were several foxgloves, tall blue flowers, and some dried flycatchers. Returned to camp about 11:30 AM.~~

~~At about 4 PM we drove to Miller's Lake where we found a large number of gophers. We set out a number of traps but none~~

June 17 0.3 mi. W, 0.2 mi. S Belleker 4840 ± ft. Plumas Co., Calif

Yesterday we noted gopher working in the alfalfa field here, just S of the road (US40A). This field is only a 1/4 mi. N of the river (Middle Fork of the Feather) ~~and~~ is in the flat river valley. Today I had 3 gophers here.

0.2 mi. W Blaisden, 4390 ± ft. Plumas Co., Calif

Yesterday I got out about 18 gopher sets here. This locality is just S of the railroad and E of Rt. 89 on the W edge of Blaisden. The field is in grass and alfalfa. ^{hr} Much of the field the soil is relatively soft, but at the S edge gophers were in very hard ground. The soil is rocky. This locality is on some hills above the river. Today we had a number of gophers. My sets produced 6.

Thaeler

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P. 2

Thomomys bottae (except saxatilis and caninus)

July 25 Butler Spr., Hells Flat, 5650 ± ft., T 33 N, R 6 E sec. 2 Lassen Co., Calif

This locality is 1.2 mi. NW of the Black Mtn Forest Experimental Station (Hells Flat R.S.) and right under a power transmission line just 3 W of the road. The vegetation is an interspersed of pine forests and meadows. Sage brush grows where the forest is open or cleared. The gopher workings where I got out 9 sets were in the grassy meadows. The soil is hard, dark and dried forming large cracks. There are occasional stones and boulders in the ground. Today I had 3 gophers in my traps.

Thaler
1960

Thomomys bottae canus

July 20 High Rock Ranch, 4040 ± ft. T28N R17E Sec 25 Lassen Co Calif

This evening I took a gopher of this subspecies here in one of the sets I had out in the ~~plowed~~ cultivated fields ^(1/4 mi) S of the ranch. This area is in the flat desert floor of the Honey Lake Valley. The soil is light colored and fairly sandy - easy digging in this field at least.

Thaler
1960

P. 1

Thomomys talpacoti saxatilis

Apr. 11 1.4 mi. E, 1.2 mi. N Susanville, 4360 ± ft., Lassen Co., Calif

Yesterday afternoon we saw gopher workings here and got out 9 sets ^{to the E of the road.} This morning we each had one gopher (CST # 892; R.E.G. # 191). This area looks like v. poor gopher habitat. The soil is dry fairly hard, reddish and full of coarse stone. The surface is almost paved with them. A little grass grows around, and there are junipers about 50 yards beyond. The locality is on gently rising ground at the edge of the valley about 350' above it. The slope steepens to the S as one drops down into the valley. The ♀ had ⁵ large embryos (31 mm.)

1.7 mi. E, 1.5 mi. N. Susanville, 4420 ± ft. Lassen Co. Calif.

We had out ^{one} 5 sets here overnight and caught one by this AM. (CST # 891). This place is v. similar to the above, but not quite so many rocks on the surface. This ♂ was reprod. active by appearance.

Apr. 13 Gold Run Creek, 4.0 mi. S, 1.3 mi. W Susanville, 4380 ± ft.

Lassen Co., Calif

We entered this valley which runs off the main Honey Lake Valley this AM. Finally secured permission to trap on the Ranch of Romonic Satia. This area covers the bottom of the valley. Here a meadow stretches across the bottom and up each side about 50' or so above the stream. The N side of the valley is dryer. On both sides conifer forests came down to the edge of the meadow. Irrigation water is being run thru the area

Thomomys bottae saxatilis

Apr. 13 (cont) Gold Run Creek, 4.0 mi. S, 1.3 mi. W. Susanville, 4380 ± ft. Lassen Co., Calif.

where we are trapping on the S side of Gold Run Creek. Many gopher burrows are being flooded out. After setting out about 20 sets (Grabenus E of the road into the Saticum Ranch and mine W - all but one on the S side of the stream) we checked a couple of sets and took one T. bottae. - CST # 896

This valley is lush at this time, the grass is green the soil moist. - it is black and loamy, easy digging. Toward the edge of the valley and higher up it becomes somewhat more sandy.

Apr. 14.

When we pulled our traps this morning we had caught nine more gophers of this species (CST #s 901-909) Farther to the W in the last of the traps & set which had any animals in it I caught one T. monticola this set was on the N-facing slope of near the edge of the meadow This was perhaps 150 yds.

from the nearest trap which held a T. bottae.
(Also see species account for T. monticola ^{CST #910} - Gold Run Creek, 4.2 mi. S, 1.7 mi. W Susanville, 4440 ± ft. Lassen Co., Calif.
Apr. 14.)

Thaler

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Thomomys "mayana"

July 26 Dickson Flat, 4200± ft. T 38N R 3E. Sec. 6 Shasta Co. Calif.

Yesterday I got out 8 sets and had two gophers this AM. This locality is an open meadow in a forest of Cedars, firs and pines. The "flat" is grass covered and periodically flooded. The gopher workings were around the edge between woods and meadow.

July 27 S side Grass Lake, 5050± ft. T 44N, R 3W sec. 23, Siskiyou Co., Calif

We stopped here about 1:30 PM to set traps for gophers. I got out 8 sets in 45 minutes and we waited about an hour and a half longer before pulling up the traps. I had a single gopher. This locality is right along Rt. U.S. 97. On the SE edge of the Valley. The gopher workings appear limited to a narrow strip along the edge of the valley. The ~~to~~ valley floor although grass covered floods periodically. The adjacent slopes are covered by ^{yellow} pine, sage and grasses.

July 28 Mt. Shasta State Fish Hatchery 3440± ft. T 40N, R 4W sec 17, Siskiyou Co., Calif.

Took two gophers this AM in the garden here. Soil is soft, slightly sandy, dark brown. I had traps set in a couple of other places around the grounds of the Hatchery including the lawns and a v. rocky, dry hayfield which had been recently cut over; but no success.

July 28 Moosehead Creek, 4750± ft. T 39N, R 1E sec. 36, Shasta Co., Calif.

Took two gophers here while we stopped at lunch time. This locality is along the N side of Moosehead creek where the road from Rt. 89 (just about 3 mi. SE of Bartel) to Big Bend crosses the creek for the second time.

Thomomys mayanus

P. 2

July 28 Moosehead Creek, 4750± ft., T39N, R1E sec. 36, Shasta Co. Calif.
as one is oriented coming from Rt. 89.
The stream flows from right to left, (approx W to E across the)
road. There has been logging here and the gopher workings
are in cleared areas c̄ grass and brush. The surrounding
forest is cedar and fir for the most part.

July 29. Red Mtn., 5400± ft. 5.3 mi. E, 5.0 mi W. Big Bend, T38N R2E sec. 31 NW 1/4
Shasta Co., Calif

Collected 2 gophers in about 10 sets last night. A small
stream crosses the road here. We trapped just ^E of the
road, in grassy places near the stream. Vegetation
was aspen, locally c̄ conifer forest - firs and pines
adjacent.

Thaeler
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P. 1

Thomomys monticola

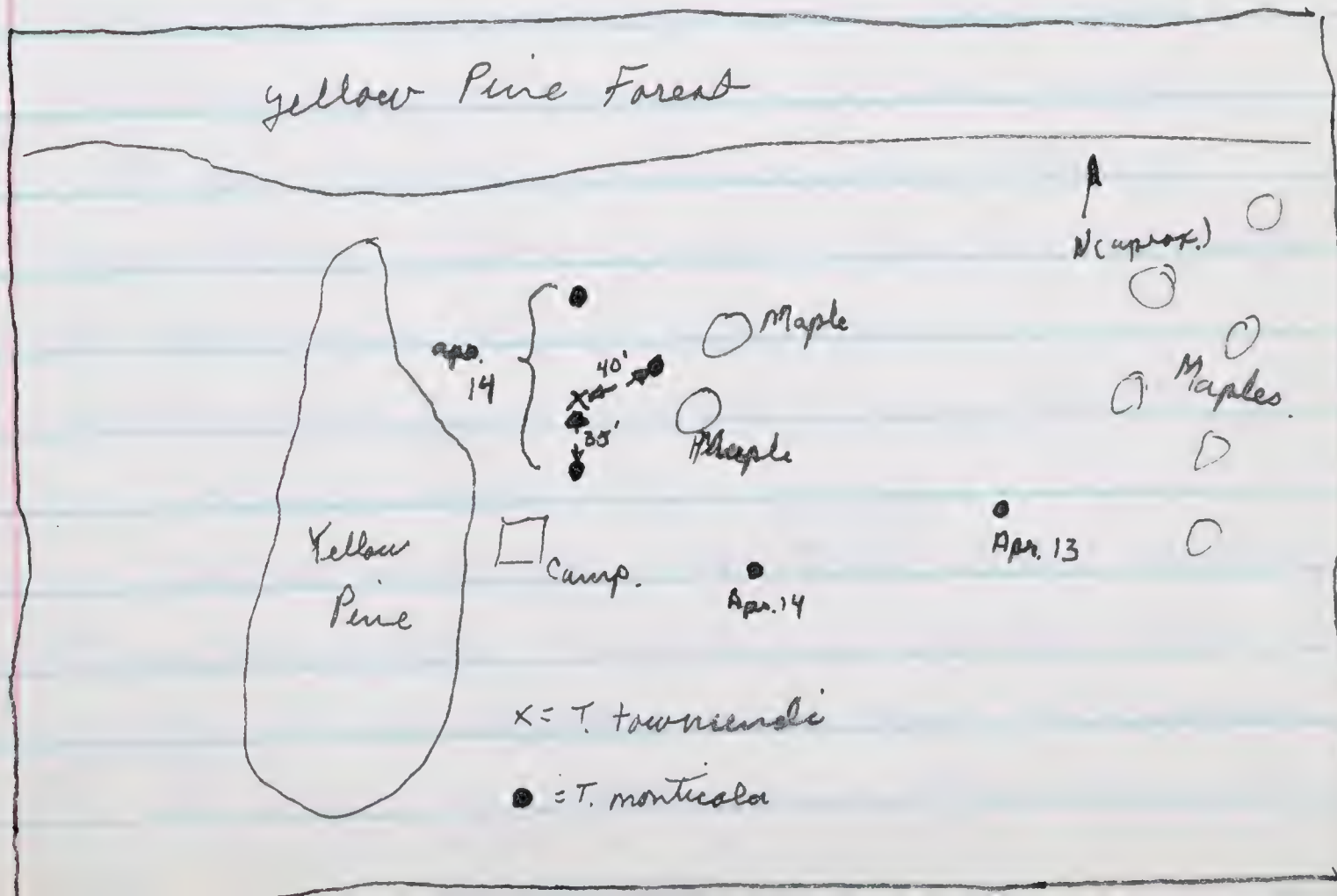
Apr. 13

Elysian Valley, 5.0 mi. S, 0.1 mi. E Johnstownville, Lassen Co
Calif

We set seven sets here earlier in the afternoon. When we checked later this evening we had one gopher (OS # 897). This locality is at the ^N edge of this broad lush valley. A forest of yellow pines comes down to the North and a tongue of trees extends out into the valley a little to the W. A knoll to the E is also tree covered. Right here there is an open grove of maples. Much of the valley is cultivated pasture, several fields are plowed and may be planted to something else. The soil is black, moist, and slightly sandy.

Apr. 14.

This AM we checked over traps and took 4 more (REG # 208-211) (REG # 107)
T. monticola as well as one T. townsendi, see diagram below



Thacher
1968

P. 2

Thomomys monticola

Apr. 14 (cont.) Elyseum Valley, 5.0 mi. S, 0.1 mi. E Johnstonsville Lassen Co., Calif.

This is as close as I have ever seen any two species of gophers. In this connection it is interesting to note that this valley, although it appears to be v. good gopher habitat shows v. little activity. Although yesterday we spent about $1\frac{1}{2}$ hrs. looking for gophers the place mentioned in the previous place and one other ~~not~~ place where ^{one} T. townsendi was taken near the stream about $\frac{1}{2}$ mi. away were the only gopher workings seen. There are at present only a few gophers in this valley.

The owner of this ranch told us he has spent much effort eliminating gophers from his property. In fact when we first spoke to him about trapping he seemed dubious about our chances for success until one of his hired hands mentioned seeing these workings here. Perhaps the low density and hence the reduced competition between gophers ~~has~~ is responsible for this mixing(?) of gopher species.

Apr. 14.

Gold Run Creek, 4.2 mi. S, 1.7 mi. W Susanville, 4440 \pm ft.,
Lassen Co., Calif.

(C.S.T. #910)

Took one of this species here, today, at the edge of the meadow, farther W and higher up than the T. bottae. The nearest bottae ~~seems~~ about 150 yards away.

The soil here was somewhat more sandy than where I got the bottae. For further details see Thomomys bottae Gold Run Creek, 4.0 mi. S, 1.3 mi. W, Susanville, Apr. 13 and 14.

Thaeler

1960

P. 3

Thomomys monticola

Apr. 16

2.0 mi. S, 0.5 mi. W Beckworth, 4920 ± ft., Plumas Co., Calif.

Last night we set about 9 sets here around the base of a slight rise just S of the road into the nearby ranch. This is just W of the ^{main} road S from Beckworth. This area is cultivated pasture just W of the floor of the Sierra Valley on land that rises gently to the base of the mountains. The soil is loamy, easy to dig in, fairly dry. The area is covered with cultivated pasture. These gophers are R.E.G. #s 208-211.

Apr. 16.

2.0 mi. N, 1.3 mi. E Calpine 4900 ± ft., Sierra Co., Calif.

Took one gopher here ^{at 7: PM} in sets that had been out for about 3 hrs. This locality is along ^{the shoulder of the} road from Calpine to Beckworth, on the floor of the valley. The adjacent land is covered with grass and a little scattered sage. and the forest begins about a 1/4 mi. to the N.W. This specimen is R.E.G. # 222.

June 16

1.7 mi. N, 1.3 mi. E Calpine, 4900 ± ft. Sierra Co., Calif.

Yesterday I got out about 10 sets for gophers along the side of the road here. Today I picked up 2 of this species from the my traps Pete Schramm had several also. All the gopher workings we saw were restricted to the edge of the road. Here the soil was soft and deep - heavily covered \bar{c} grass (a soft chess?). No workings were seen farther E of the road beyond the fence. This land is brush covered and the soil may be harder. This locality is v. close or identical to the place where I got a single T. talpae last fall.

Thaeler
1960

P. 4

Thomomys monticola

June 15 1.9 mi. S, 0.1 mi. W Calpine, 4950 ± ft. Sierra Co., Calif

Yesterday we set out a total of 13 sets here. Today I checked the traps and took 3 gophers in my sets. Schumann also had several. This locality is in a dry wash just W of the road. There are a few yellow pine near by but here the vegetation is sage and grass. The soil is quite rocky, in the wash and all the ^{obvious} workings are here.

June 16 2.1 mi. N, 0.3 mi. W Calpine, 4940 ± ft., Sierra Co., Calif

Yesterday I drove N on a dirt road from Rt. 89 toward McPherson Camp. About 1/2 mi. short of the camp I parked. There is a little N-S valley here. I spent 45 min - 1 hr. looking for gopher signs before I found any on the W side of a rather steep banked stream. Here the vegetation is grass. The soil is quite hard and quite dark. Today I got 3 gophers out of my traps. Much of this valley is flooded periodically and on the whole it seems well watered. Grass here is still generally green.

July 23. Willow Creek Valley, 9.5 mi. S, 4.0 mi W Fredonyer Peak 5080 ± ft.

Hassen Co., Calif

Late evening I set out 13 sets and today took a 8 gophers. This locality is in a recently cut hayfield in rolling terrain, well above the main part of the valley. The fields are irrigated by flooding but not all areas get equally wet because of the terrain configuration. The soil is ~~very~~ dark, loamy, easily dug except for the plant roots. Heavily timbered areas are adjacent to the fields.

Thresher
1960

Pg. 5

Thomomys monticola

July 24 Willow Creek Valley, 9.5 mi. S, 4.0 mi. W Fredonyer Peak, 5080 ± ft. Lassen Co. Calif.

Today I got 4 more gophers here.

July 27 N. side Medicine Lake 6800 ± ft.iskiyou Co., Calif

This locality is on the N side of the lake approximately midway between the E and W streams and about 100 yds. back from the lake. The area is forested mostly by lodgepole pines. The soil is very sterile, light colored bits of ~~poor~~ volcanic ash - often in pieces of several mm. dia. Between the stands of pine are open areas with a few bushes and a little grass. Gopher workings are not abundant. I had one gopher out of 7 sets this AM.

Thaler
1960

Thomomys talpoides

Apr. 12

7.5 mi. N, 6.1 mi. E. Litchfield, 4420 ± ft. Lassen Co. Calif.

Yesterday we set several traps along US 395 in this area. This afternoon we checked them and had one gopher here. All our sets here were right along the highway where it crosses a wide level "mud floor". There is virtually no vegetation on the flat on either side of the road, and but little along the raised embankment of the road. It was here ~~that~~ on the highway embankment that all our sets were placed. CST 894

Apr. 16

Dutton Ranch, 1.3 mi N. 0.4 mi W Loyaltan 4910 ± ft. Sierra Co., Calif

After driving across the Sierra Valley farther N and then S toward Loyaltan we finally spotted gopher workings here. We got permission to trap in the pasture just N of the ranch buildings and took 4 gophers before 5 PM. The soil is fine, loamy, ^{fairly dark} fairly easy digging. REG #s 218-20

Dutton Ranch, 1.1 mi E, 0.4 mi N Loyaltan 4900 ± ft. Sierra Co., Calif

We got almost 30 sets out in an alfalfa field here by 11 A.M. By 4:30 we had 14 gophers. This is at the edge of the valley on land that slopes off to the W. The field is flood irrigated and cut by several shallow washes. The gopher workings were thick! The soil medium dark, slightly reddish and somewhat stony. CST 912-925

C.S. Thaler
1960

P. 1

Thomomys townsendi

Apr. 11

3.4 mi. W, 3.3 mi. N Litchfield, 4140± ft. Lassen Co., Calif

We set traps in a stubble field to the E of the road this morning. On our return this afternoon we had one of this species. The soil is light colored, soft, fine. Easy to dig in. Specimen REG # 192

Apr. 12

^{There}
We took ~~another~~ gophers here this morning, of which Graham put up. REG # 194; CST. 898, 899
3.4 mi. W, 4.3 mi. N Litchfield 4160± ft. Lassen Co., Calif

Yesterday evening I put out 9 sets on the flat land on either side of the stream just W of the road. This evening I had two gophers - REG # 195 and CST # 895. All but one of the sets had been set off or plugged. On several it appeared that a gopher had been caught and was able to get away since there was hair on the prongs of the traps. At one set ~~there~~ one trap was sprung when I pulled it out but the gopher had just gotten off the trap and was still just inside the tunnel. She (as it later proved to be) tried to plug the tunnel entrance while I sat just outside. By removing dirt as fast as she piled it up I was able to keep her around for several minutes. At one point I reached in to pull out a handful of dirt and she grabbed me around the finger, her incisors closing in front of my finger and thus not actually biting me. I jerked my hand back and pulled her out onto the ground and was

Introduction

The purpose of this study is to investigate the effects of various factors on the growth of plants. The study was conducted over a period of six months, during which time the plants were grown under different conditions. The results of the study are presented in the following sections.

The first section of the study is a review of the literature on plant growth. This section discusses the various factors that can affect plant growth, such as light, water, and nutrients. It also discusses the different methods that have been used to study plant growth, and the results of these studies. The second section of the study is a description of the experimental design. This section describes the different conditions that were used to grow the plants, and the methods that were used to measure plant growth. The third section of the study is a presentation of the results of the study. This section discusses the effects of the different factors on plant growth, and the differences in growth between the different conditions. The fourth section of the study is a discussion of the results of the study. This section discusses the implications of the results for plant growth, and the need for further research in this area.

Thaler
1960

Thomomys townsendi

P. 2

Apr. 12

3.4 W., 4.3 mi. N Litchfield, 4060 \pm ft. Lassen Co. Calif.
thus able to secure her alive. ^{she died Sept. 15, 1960 in} captivity. - CST # 895

Mr. McAllister on whose ranch we are trapping informs us that although gophers are common here where we are trapping along the stream (Willow Creek) he has never seen them in his cultivated fields atop the steep rise behind his house.

Apr. 13

1.1 mi. N, 3.2 mi. W Wendel 4010 \pm ft., Lassen Co., Calif

Yesterday afternoon we put out a couple of sets here and at the next two localities. This AM. I checked the traps and took a gopher here. (REG # 204) This locality is just S of the road in a plowed field. The soil is somewhat sandy light colored and easily dug.

1.1 mi. W, 1.4 mi. W Wendel 4030 \pm ft. Wendel, Lassen Co., Calif

Got a gopher here - this area is uncultivated desert just S of the road. Vegetation is scattered sage and other desert brush & patches of grass - rather open with patches of white alkalie salt on the surface. (REG # 203)

1.1 mi. N, 0.3 mi. W Wendel, 4060 \pm ft. Lassen Co., Calif

Here I got a gopher in a sandy depression just W of the road adjacent to desert vegetation like that mentioned above.

Apr. 14

Elysian Valley, 5.0 mi. S, 0.1 mi. E Johnstownville 4330 \pm ft. Lassen Co., Calif

For a detailed account see ^(see account P. 1) *Thomomys monticola* same date and locality. R.E.G. # 207.

Elysian Valley, 5.3 mi. S, 0.3 mi. E Johnstownville, 4330 \pm ft. Lassen Co. Calif.

Yesterday I walked for about an hour across the fields of this ranch. Except for the gopher workings found that

Thaler
1960

Thomomys townsendi

P. 3

Apr. 14 ^{cont} Elysian Valley, 5.3 mi. S, 0.3 mi. E Johnstonville 4330 ± ft. Lassen Co. Calif

are mentioned above (5.0 mi. S, 0.1 mi. E Johnstonville) these ~~who~~ at this locality were the only ones seen. This A.M. I had one gopher in the three sets. This locality is down near the stream. The soil is very moist, very dark - virtually black, with mica flecks in it. The area is pasture ^{some} other areas of the field being in a grain. The hills surrounding the valley are forested to pine which comes down onto the valley floor around the edges. The stream ^{course} a few yards from here is marked by willows, alder. This looks v. similar to where we got T. bottae saxatilis along Gold Run Creek. The rancher here remarked that he has kept up a constant war against gophers and that there were few if any left on his land. Specimen REG # 207

3.0 mi. S Johnstonville, 4440 ± ft, Lassen Co., Calif

This locality is on the Mountain Meadow Ranch - Jack Elean's Bongo Camp. Yesterday I put out 4 sets just W of the road. Today I had a gopher (REG # 205). Yesterday I looked farther for gopher workings in the woods and adjacent fields farther to the W. Graham looked over the pasture to the E but 0 results. The soil here is fairly dark, somewhat sandy. The workings are in a small pasture to forest of oak and pine (mainly) around. To the east it is open down to the main pt of the valley. It appears that T. townsendi along the W side of the Honey Lake Valley range to the edge of the forest (T. monticola range) except where T. bottae has gained access as around Susanville - down to Gold Run Creek.

Thaeler
1960

P. 4.

Thomomys toconseni

July 18 3.5 mi. N, 3.2 mi. W Milford, 4070 \pm ft., Lassen Co., Calif.

Took 4 of this species here this morning. These ^{just E of 45395.} were in an irrigated (spray) alfalfa field. Gophers were quite abundant in this field. Dr. Benson had one from just W of the road in a unirrigated field of rye.

Thaler
1960

Empidonax wrighti

June 27 2 mi. E Hobart Mills, 6000± ft., Alameda Co., Calif.

Collected one male in fairly dense Jeffrey pine (small trees 3'-8' high with a few larger trees in the vicinity) about 1/2 mi. E of our camp here. The bird was only about 18" above the ground when I shot him.

June 28

Collected ~~the~~ both these on the top of the ridge W of camp here (about 1/4 mi away). The female was v. low in some small firs. The male was about 8 ft up. This area was mixed pine (Jeffrey) and white fir.

Thaeler, C. S., Jr.

~~1956~~

end

217708

